gi:2791272

```
    1 gatcatacct ctcctctgct cagaggttct catcggttcc catctgtcta gaaaataaaa
   61 tgtgaacact tgaccttgat caaaatcctt tgtaatctgc tgattaccta cttctctacc
  121 cttctcattt ctctctttta cctaccctca tgcttgaatt tcctgcctac ttaacattga
  181 tcgctcttca cctttacacc cctcacttaa aaccccagcc ctcactcccc acacaaacgt
  241 ggctcccagt gccctggtca aaatctcact ttccttcaag atccagccaa gtccactgct
  301 gtcatgaagc cttctctgat tttccttttc cacacctctt gcaggaaaca attcttccct
  361 tctctggact cctctagtat tttacaattt cctccctgaa agcatttaat ccccctcttg
  421 ttctgagatt attcacgcac tcacctgagc tcccaccaca gtgattcagc atgtcatgag
  481 cagagccagt gagtgcttaa cgtgtgctca ccagaagcac ttagcgcagt gccttgcact
  541 gctcagcagc tccatatttg tggaataaag cgtttgttta cttctccaaa gtgtttatta
  601 ttccgaaaag gttaaatggc tgttttttt taaaagtgt taacaaattt aagtatttat
  661 ctctgaccaa ttttgaggaa gaataaacct gttcatgtgt tctaactcat cagagaatag
  721 aaatatgttt ttgtgaaact tgttttttaac ccaaggattt attgacaaaa gaaaaaaaaa
  781 aatgaaaaag tattctgctt tttaaaatgc cctgaattaa acatttacgt gcttgctata
  841 tttttcttaa catgtatgag tttggtctag agaaaatttc caaagagaaa gtgatgagga
  901 catcattgaa tatataggta aaaattcaaa ggcatttaat ccctgtaaca cacgaaatga
  961 atcagcctga atttacttat aaatatacaa gagaaatgac tcacgtcttc agtgatacag
 1021 agcaattcag ttgtaaaaag ctaggaaaag tggaaaagtg tgtaagagtt tcagcaagta
 1081 cgttcattac ccactgacta gaaaagggac aaggtaaagc tattattata gtatatactc
 1141 atgtatatct tcttcaagaa gatgagtctt ataaaaatta atatgtctgt agaattctct
 1201 aaattgttaa gggaaggtag tacttatatc ttaaatttgc ataggagaat tatagtttct
 1261 gctaattatc atggattgtt tacatttgct gactgattga cctacctatg tatttattca
 1321 tcgttgtatt ttcatctaat tccaaaagca tttgaacctg gtcttagatt attactcaaa
 1381 gttgatatcc taattcccta tttagattag aacttctgat aaacagcgta gttttacctt
 1441 tttcctttca gtttacttt ttttaaaact actgtatttg tgggtagtgt gctcaaagtt
 1501 ttttttttta cagtgtttgt caaataatag tgaagtagaa cacagaggtg gagttttgcc
 1561 aagtgctgtg tcatgctgtg ctagagacct aacattctgt gttgctacac cagcagaatt
 1621 tattcctctc cttttgcttt attataggct tgcagtgtaa gtttaaatat agtaaacagt
 1681 tgttgtttta aacaaatgat cttgtttttat tgtgcttttc tgtgcttttta aaacatattt
 1741 ggagattttt ttacatacaa aaaagtacaa agtattttgt tgtgtgtact catgtattaa
 1801 cagcagagtt gattataaat attttctcat atttgcttca cgttctttta acaaattcaa
 1861 tatatttttt aaaaaccagc tcagcaaggt tattgctgct gaggggcagc ttccgttact
 1921 ccccactcct tgccactctc ctgtccctct cagaggagct ctcactgcac tgggggtttt
 1981 cctttcagtt cattcaacgt acatgtatat atctatgaat agtatgtgat tttatgtttg
 2041 tatttttaaat ttgcataaac agtaccactt tgtatgtaga tacctagtaa tttgctttat
 2101 aattttacat tgttctccag aagagacttt ccatttcctc acctctttaa ttatacctaa
 2161 tattgttaga atttaaattt ttggccaatt tgatggattt gtttgttgtc tttctggttt
 2221 attgattact aagattgggt ctcattattc tttaaaacaa attttttactc cattaaactg
 2281 atgatagctg gagatgggat tttgcttagc aattctgcac atgtccctgt ttgaggggac
 2341 aagtcagaag cctgcagcat gatgctgtgt ctggagggtg cactgtttct agccttccac
 2401 tagcccagag tggtaccagc tgttcctttt cagtcttctg tgctggctcc tcctcacctc
 2461 cccagcctct cacataggcc ccagggctgt ggccttttgat ctcttctctt cctgtctgtg
 2521 ctcactttgt aggtagtcctc atccggtctc ctgacttcag ataccatttc tgtgctgatg
 2581 atgccccagt tcattccaca tgtgtgggatc attctgactt accccaccag tctctgctgg
 2641 ggtgtctaat tagcatctca ggtctgatgt gtcccagatc ccttgttcac ccctacctc
 2701 taagcacact tcccccatag tcttccgcca tccttccatc tgcttggcca aaaatcttga
 2761 agtcatcctt gatgcccatc tttctcacgt gttgcctcta attaccagt aaaacctttt
 2821 ggctcttcac ttcaaaatgt cttcagaatc catccacttt taatcacctc caacacccca
 2881 ccccagccac atcctctcta ctaaattgct tctggaatag ctcctgattg gtctctgtgg
 2941 ttctaccctg ttcctttaca gactactctc cacatagcag ccaaagtggc cttgtaacaa
 3001 ttgtgtcatt cctttgctta aaagcccag gggtttcctg actcatttgg agcactggtc
 3061 aggcacccac caggagtct gtcttcctcc ttaccatctc cctgaggcto agctccccaa
 3121 ccttcctccc tcgcgtgctc agctgcagcc acacgggtct cctgcctctt tcttgaacac
 3181 ccgcagcagg cccctgtctc agggactttg cactccttttc ctctgttaag aatgccctct
```

FIGURE 1

```
3241 aggaggattc cattccaaga tggccaaata ggaacagctc cagtctgcag ttcccagcgt
3301 gattgacgca gaagacggat gatttctgca tttccaactg aggtacctgg ttcatctcat
3361 tgggactggt tggacagtgg gtgcagccca cagagggtga gccaaagcag ggcaaggcat
3421 cgcctcaccc aggaagcaca aggggtcagg ggatttccct ttcctagcca agggacgctg
3481 tgacagacag tacctggaaa aacgggacac tcctgcccaa atactgcact tttccaacag
3541 tcttagcaaa tggcacacca gaagattata tcccgcatct ggcttggtgg atcccatgcc
3601 cacagagcct tgctcactgc tagcacagca gtctgagatc tacctgtgag gcagcagcct
3661 ggcagaggga gtggcatctg ccattgctga ggcttgagta ggtaaacaaa gaggctgggg
3721 aagctcaaac tgggcagagc ccaccgcagc tcagcaaggc agactgcctc tgtagtctcc
3781 acctctgggg gcagggcata gctgagcaaa agacagcaga aacttctgca ggcttaaaca
3841 ttcctgtctg acagctctga agagagcagt ggttctccca gcatggtgtt tgagctcaga
3901 gaaaggacag actgcctcct caagtggctc cctgacccce gtgtagccta actaggagac
3961 acctccccgt aggggccgac tgacacctca tacaggcggg tacccctctg gggcgaagct
4021 tccagaggaa ggatcaggca ccaatatttg ccgttctgca atatttgctg ttcttcagcc
4081 tctgctggtg atacccaggc atacaggcc tggagtggac ctccagcaaa ctccaacaga
4141 tgtgcagctg agggacctga ctgttaggag gaaaactaac aaacaaaagg attagcatca
4201 acatcaacaa aaagaacatc cacaccaaaa ccccatttga tgttggtggg tcaccaacat
4261 caaagaccaa aggtagataa aatcacaatg atggggagaa accagaccag aacatctgaa
4321 aattctgaaa accagagacc ctcttctctt ccaaaagatc gcagctcctc gccagcaatg
4381 gaacaaagct ggatggagaa tgactttgat gagctgacag aagtaggctt cagaaggtca
4441 gtaataacaa actttccaa gctaaaggag gatgtttgaa cccattgcaa ggaagctaaa
4501 aaccttgaaa aaagcttaga caaatggcta actagaataa acagtgtaga gaagacctta
4561 aatgacctga tggagcaaaa ctgtggcacg agaactacgt gacgcataca caagcttcaa
4621 tagctgattt gatcaagtgg aagaaagggt atcagtgatt gaagatcaaa ttaatgaaat
4681 aaagcagaag gagaaggtta gagaaaaaag agtagaaaga aacgaacaaa gcctccaaga
4741 aatatgggac tatgtgaaaa aaccaaatct acatttgatt ggtgtacctg aaagtgacgg
4801 ggagaatgga accaagttgg aaaacactct tagggatatt atccaggaga acttccccaa
4861 cctagcaagg caggccaata ttcaaattta ggaaatacag agaacaccac aaagatactc
4921 cttgagaaga gcaaccgcaa gacacataat tgtcagattc accaagttgg aaatgaaggg
4981 aaaaatgtta aggacagcca gagagaaagg tcgggtcacc cacaaaggga aacccatcag
5041 acttaacagc agatctctcg gcagaaactc tacaagccag aagagagtgg gggctggtat
5101 tcagcattct taaagaaaag aattttcaac ccagaatttc atatctagcc aaactaagcc
5161 tcataagtga aggagaaaaa aaaatccttt atagacaagc aaatgctgag agattttgtc
5221 accaccagac ctgccttacg agagttcctg aaggaagcac taaacatgga aaggaacaac
5281 cagtaccagc tactgcaaaa acatgccaaa ttgtaaagac catcaatgct tggaagaaac
5341 tgcatcaact aacgggcaaa ataaccagct aacatagtga cgggatcaaa ttcaacacata
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5461 ggataaagag acaagaccca tcagtgtgct gtattcagga gacccatctc acatgcagtg
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5581 aaaaaaaaaa aaaaaaaaaa aaaaaagcag gggttgcaat cctagtctct gataaaacag
5641 actaaaccag taaagatcag aagagacaaa gaaggccatt acataatggc aaagggatca
5701 attcaacaag aagagctaac tatcctaaat atatatgcac ccaatacagg agcaccagga
5761 ttcataaagc aagtccttag agacctacaa agagacttag actcccatac aataataatg
5821 ggagacttta acaccccact gtcagtatta gacagatcaa caagacagaa ggttaacaag
5881 gatatctagg acttgaactc cgctctgcac caagcagacc taagagacat ctacagaact
5941 ctccaccaca aatcaagaga atatacattc ttctcagcac cacatcgccc ttattctaaa
6001 attgaccaca tagttggaag taaagcactc ctcagcaaat gtaaaagaac agaaatcaca
6061 acaaactgtc tctcagacca cagtgcaatc caattagaac tcaggattaa gaaactcact
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6181 aatgaaatga aggcagaaat aaagatgttc tttgaaacca gtgagaacca gacacaaca
6241 tatcagaatc tctgggacat atttaaagca gtgtgtagag ggacatttat agcactaaat
6301 gcccacaaga gaaagcagga aagtgtaaa atcaacacct agcatcaaaa ttaaaggaac
6361 tagagaagca agagcaaaca aattcaaaag ccagcagaag gcaagaaata actaagatca
6421 gagcagaact gaaggagata gagacacaaa aaaacccttg aaaaatcaa tgaatccaggg
6481 agctggtttt ttgaaaagat caacaaaatt gatagactgc tagcaagact aataaagaag
6541 aaaagagaga agaatcaaac agacacaata aaaaatgata aagggctat caccactgat
6601 cccacagaat acaaactatc atcagagaat actataaaca cctctatgca aataaactag
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FIGURE 1 (continued)

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 6661 aaaatctaga agaaatggat aaattcctgg acacatacac cctcccaaga ctaaaccagg
 6721 aagaagttca atctctgaat agactaataa caggctctga aattgaggca ataattaata
 6781 ggctaccaac caaaaaaagt ccaggaccag atggatttac agctgaattc taccagaggt
 6841 acaaagagga gctggtacca ttccttctga aactattcca atcaatagaa aaagagggaa
 6901 tcctccctaa ctcatttcat gaggccagca tcatcctgat accaaagcct ggcagagaca
 6961 taacaaaaaa aagagaattt tagaccaata tccctgatga acatcgatgt gaaaatcctc
 7021 aataaaatac tggcaaacca aacccagcag cacatctaaa agtttatcca ccatgatcaa
 7081 gtcggcttca tccctgggat gcaaggctgg ttcaacatat gcaaatcaat aaacataatc
 7141 catcacataa acagaaccaa tgacaaaaac cacatgatta tctcaataga tgcagaaaag
 7201 gctttcaaca aaattcaata gcccttcatg ctaaaaaatc tcaataagct aggtattgat
 7261 ggaacgtatc tcaaaataat aagagctatt tatgacaaac ccacaaccaa tatcatactg
 7321 aatgagcaaa agctggaagc agtccctttg aaaaatggca caagacaagg atgccctctc
 7381 tcaccactcc tattcaaaat agtgttggaa gttctggcca aggcaatcag gcaagagaaa
 7441 gaaataaagg gtgttcaatt aggaaaagaa gaagtcaaat tgtccctgtt tgcagatgac
 7501 atgattgtat atttagaaaa ccccattgtc tcagcccaaa atctccttaa gctgataaac
 7561 aacttcagca aagtctcagg atgcaaaatc aatgtgcaaa aatcacaagc attcctatac
 7621 accaataaca gacaaacgga gagccaaatc atgagtgaac tcccattccc aattgctaaa
 7681 aagagaataa aatatctaag aatccaactt acaagggatg tgaaggacct cttcaaggag
 7741 aactacaaac cactgctcaa caaataaaa gaggacacaa acaaatggaa gaacattcca
 7801 tgctcatgga taggaagaat caacaacgtg aaaatggcca tactgcccaa ggtaatttat
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 7921 aagttcatat ggaaccaaaa aacagcccac gttgccaaga caatcctaag caaaaggaac
 7981 aaagctggag gcatcatgct atctgacttc aaactatacg acaaggctac agtaaccaaa
 8041 cagcatggta ctggtaccaa aacagatata tagaccaatg gaacagaaca gaggcctcag
 8101 aaataacacc acacatctac aaccagctga tctttgacaa atctaacaaa aacaagaaaa
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 8341 agaacataga catgggcaag gacttcatgt ctaaaacacc aaaagcaatg gcaacagaag
 8401 acaaaataga caaatgggat ctaattaaac taaagagctt ctgcacgaaa ctaccatcag
 8461 agtgaacagg caacctatgg aatgggagaa aattttttgca atctactcat ctgacaaagg
 8521 gctaatatcc agaatctaca aataactcaa acaagtttac aagaaaaaaa acaacccaat
 8581 ccaaaagtgg gcaaaggata tgaacagaca cttctcaaaa gaagacattt atgcagccaa
 8641 cagacacatg aaaaaatgct catcatcact ggtcatcaga gaaatgcaaa tcaaaaccac
 8701 agtgagatac catctcacac cagttagaat ggcgatcatt aaaaagttgg aagcaacaga
 8761 tgatggagag gatgtgggga aatcggaacg ctttacact attggtggga gtgtaaacta
 8821 gttcaaccat tgtggaagac agtgtggcaa ttcctcaagg atctagaact agaaatacca
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 9001 caacccagat gtccatcaat tatagactgg attaagaaaa tgtggcacat atttaccatg
 9061 gaatactctg cagccataaa aaaggatgag ttcatgtcct ttgcagactt ggatgcagct
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 9241 ctggggcctg tcatggggtg ggggcctggg ggagggatag cattaggaga tatacctaat
 9301 gtaaatgact agtttatggg tgcagcaaac caacatggca catgatacc catgtaaca
 9361 aacctgcacg ttgtgcatat gtaccctaga acttaaagta taaaaaaaa aaaaaaaaag
 9421 aacgccctct accagatact gtgagactta cgccaccctg ccttcagctc tctagcagat
 9481 gtcgtttgat cagtggggcc ttcctgaata taaatatatg taatataat atatataaaa
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 9601 tttcctcaca gccattaacc accaccagac acttgtgtgc gtgtttatta tctatttctt
 9661 ccaactagaa aataaaattat ataagggcaa agatgatgtt ttgcttgctg ctgtatcttc
 9721 agctccttag gattgtgcct ggcaaatagt aggtaataaa cagttgtta ttgaattact
 9781 agaaaaaaat ctctaaaatc tgtagtcctg cagcatgtga agaaggaata ttagactctg
 9841 cctgcctttc tgaaagtgac atatacttaa gtgatgctaa gtgagatatgt aagaacatgc
 9901 ttcatatgtt tgagccttga tgatctctga caggagaaat ggggtaaacc tttttttaaa
 9961 aaggacagta taatctgttc ttggcagcag cttttctataa tctaggaaat aattcaatat
10021 tattaatttt cgaattagat atagtcggcc gggtgcagtg gctcacacct gtaatcccag
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FIGURE 1 (continued)

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10081  cactttggga ggccaaagca ggcggatcat ctgaggtcgg gagttcaaga ccagcctgac
10141  taacatggag aaatcctgtc tcaactaaaa atataaaaat tagccaggca tgatggcgca
10201  tgcctgtaat cccagctgtt tgggagggctg aggcaagaga attgcttgaa cctaggaggc
10261  ggagattgcg gtgagccgag atggtgccat tgcactccag cccgggcaac aagagctaaa
10321  ctccatctca aaaaaataat aataatagta attagatata atcgtttttc attaaattcc
10381  ttcactaaaa tcaaatggta actgtgctac ttgatacctt tacttataaa tagtgtttat
10441  gttatatggc caaggtcagt ataggtattg ttaatgtgat aatggcattt gtttattaat
10501  ttgttattta ttggttattg gagcagatta ctagaaggta attcaagttt tttgactatt
10561  ctgtgttctc atcctcagta atgatcattc caggttgata aagatctgtt ctgttttta
10621  atagctccag aggagaaaag tttattctct ttttgaatga tttttttttt ttatgtatca
10681  cttcggcacc tattcaatgt gtgcacaatt actatcgccc aggagctcct ggctgattac
10741  tatgatgtgg catgagccca aatttggcaa ggttcacttc ccaaggctgg aatcagggaa
10801  agaccggtga tggccaaagt ggtcccagaa ggaagggaag gaatttattt atccctacac
10861  tgctgcattt ggaaggctgt tggtgaggag ggaaaggaag ggcaaacatt ctagaccaag
10921  gagttgcttg accgaagaca cacaggttgg ggaagaggaa tagggtataa gagtgtgaat
10981  gggacagaaa aacaagagag ttccacaggg cccaaggctg ggaagcaggc tggggacag
11041  gtaatagatg ctgtgcaggg gagtttcagc atgagaactg ccatttcagg tttaaactct
11101  attcactggg cttggataca atgaacaccc ctgtcatgtc agtttatacc catttcttca
11161  tgttctgaca cttgaaaact attattttt agataggatt cttgagtatt ttaattttc
11221  taaatagtga cacatacagt gtttctttga ttacaaaagt ctgaaccgaa gttgtttaaa
11281  gctattgccc ctttaggacc acatatatct gactttatc ctgggttatg ttctcaaatg
11341  ttctggagac aaaagattat agggcttta atctgtgacc cttgaatttt cattgttgag
11401  gtttgttgtt tgtttgtttg tttttttgctg ttgctgctgt tttattttgt agtgggaatt
11461  tagacagtaa tgacagaaag aagcatgttt cattaagtgg atgatcccat tcagcaacaa
11521  taatactaat actcccacag agccaaagcc tttttctgg gtggatgagt gtttataaa
11581  agaagtacct caggacttca gcctctctca ttctccacca gatggagttt aacagtttgg
11641  atggaaagtc tgaaatgatt ttccttgtg atatcccgtt ttttatgtct atgtataaat
11701  gtataatgac taatttggaa atagcgctat caatttatta aactaggaag cattatttcc
11761  cctgaaatta gtttctgctc tggcccagga tcactgtggt gtagaacttt caccacagaa
11821  tagcctctgg taaaagatga ggcctgtact tgtcctactt taacgcttct gtatatgttt
11881  taaaaccttg ccccaatcaa ctctcataaga atgttataaa gagagcagtg tgttatgaag
11941  tgtttcattt tactaacaat ttttatttcc aaagaaaaat gcaaatgatt actatattag
12001  acatacagta ggagtagaag aagtggctga cttaaaacat gatgaaggag aataaaatgt
12061  ttctggtgct acagtttcaa gttttgaagt ggacagccca gcagaacaaa gctagggaga
12121  cctggggggct ggtcactgtc gagtgagctc atgtgcctgg ttcccccctg catcctcttc
12181  acaccccgat gcgtctccac ctccctcatc ataggggata cctgcccctc ttggggagca
12241  ggctcttggc agcagctctt ttgagaagtg agccactatg taaagcctct gccattcttg
12301  agagtcctgc ctgacagtgt attctccatt ttcttagccc agtcagtgag gataagtgaa
12361  aacattgtat cgtgtaaagt gggatatttt aacacacaaa ctgcctgct ttcccttta
12421  atggtgaaca accttttgtg gtatcatggg gtcttgatat catctctcat cttcttaatc
12481  taacataatt cgaatattag tcatgttaca caaacagact gctagaaacc acacccgggat
12541  ttcatttgct gtgtgtcaac agtagaaatt caggacaatc ctctggtttt gccagcagta
12601  agtttccaca acagttatca aagtcagcct ctttattcc aaacagtgat tttggtggct
12661  tttcagacac ctttcattat gtcttcacac ctgcagttat cgaaggatgt ctggtctagc
12721  tatatgaaaa ctgaaaatcc aaaataaccc aggaaatct tttattttcct gggttctccc
12781  aaacacagtc gaagtatgtc gtttcatcat gctaacagat tatagatgac tattagtaa
12841  tatagtgctg aaagaaaaat gtcccacatc aggagccacg tgtcttttca ggaaccagta
12901  ctatgaaaca tcaagtcttg atcagtatga aaattgtctt ctctgttttg gtaggtacac
12961  ttcctgtttc ctaacaacag ggtggtagtg acatcagtag tggggtcctg ccgcatgtga
13021  agagggaata ttagactcag catgctttttc tgaaagtgat gtatacttga tactaatagg
13081  atatttaaga acatgcctta tatgtttgag tcttgatgat ctctgacatg gaaaatgggg
13141  taaaccttt tttaaaaagg acaaaatttg ggagacctga ttgtaaatct aaaaagtcac
13201  aaccectgcc agagtttgca gaacagtagc cagaaaccta aggattgtgt ttttaggttt
13261  ataggacaca tttgggggct tagtcattta actgatcttt tctgtagcat aaacataatc
13321  atcaccagga aacgtctctg agctttcatt cattaaacaa aatgtactaa acacttaaga
13381  ggcagtcagt gttactacaa agcaccccag tatagtactt attttttaaa catcattacc
13441  acttggtaat atctccgtca gctcatacg ttctgggaaaa agcccaggtc ttatgctgtg
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FIGURE 1 (continued)

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13501 tttgtgctga gttgctccct tacatgtgca ttgtttgtt tttcactaaa ggttttctcc
13561 atatttcttt ctaattaatg tcagtgtttt ccaagcatta tcttcagtct tttcctttta
13621 aggatcctag acctgttctc tactctgcca accacaccat acccaggtta tcattcacca
13681 tcatattgtg cctggtccct ggttgataaa gagtgttcat taaagggtga tgtgaaaatg
13741 atgtgatgaa aggccacaga cccctctga attctttacc acccttagca acagcaggct
13801 gcgcggtacc tgtcttatct tttagcagat ggaattcatg ttctaattct caatggaata
13861 aattagggga tgttgggaaa cgtttgcgtt taatgaagca ggaggaatta tacatttta
13921 taagccagcc attaaaatgt ggacattcgg catttaaaag aagtttctat ttagtttaaa
13981 actagcaact tgagctgcaa tgataagaaa tgctcatggg aagcctaatc cctctgctcc
14041 actgcacatt cccttgtttt cttgccataa aacatgatat agcctcggga attttgttct
14101 cctgttcttg gggtattagt gactacattt tagttttcac cttttgtgtc aaaattcaag
14161 ccgccagcaa tttgcttttc atcctttgat ccgaagaatg ttttcgtcaa caaatgctgg
14221 acttcagtgc acggaatgtt aatgtgtacc ctcagccgcc agctaggaga accgtttaat
14281 atgacgaagt gcagtgagaa gcattattct tgttggagtt taagtactta cagtaaagat
14341 gatgtttgat cacaggtttt aaaacctata tcacatttac tcttaaaaat aatttaggtg
14401 catttttaaa aattactagc aaagcttttt ttccaaatga aacctgtaga atatattatc
14461 atcgggattt ttatagaaca cattattact ctttttaaga aacacttcca tgtgtagaat
14521 atgaaaccat aataggcttt aggatttata cttaaagcag tgctaatatt attttgaatg
14581 acacgcacgt gacacagtat tttggtttac ttcctaaagt taaacattaa actctgcccc
14641 attatgtttt taatgatgat tttatcttta aaatatatat atataattgt attcacattc
14701 tttaaaaaaa tttttttccct aggttgccat tgtttatctg gctttcacag caatatttct
14761 aaacatatgt gaaaaacaaa aacaggcaaa cttcaacaac aaaagaaggt tgctactgag
14821 tgtacgtggg ccaggttgct accctcggga gcccctctc tcagggagcc cctcctgctg
14881 cttttgcgac tccgactctt ccagcaggtg tcactgtctg cgcagcagtg gcgagcaggt
14941 tgcggttcac ctgactcatc ttcaaataat aactttaaa atttatcttt agggaagttg
15001 tttgacgtaa atgtatcaaa acttgacaa aaatgttgct acatcatatg cctgattttt
15061 ccctcatgaa ttgaaattca cagaaaataa aggaattaat cttgtgctga tataaaattt
15121 tattgagtat tagaaacatt tgtttataat gagaggggaa tgtggctggg aggacataat
15181 taaatgaaac ttttaggacc atttatttat gaatttgcta agcaaatata gattccttag
15241 gtctgttcta gagtctctga tggctgcaaa ggggtaagcc acagtgctta ccctcctgaa
15301 gtattagtgt gtattataca caccaagaaa ggaacaattg taatagaaaa ggagaaagtc
15361 agtgtatctt attggcataa tgacagggct cctaagttca tagaaacctg ttttgaatc
15421 ctggctttga tgcattctaa tcatatacag tacaagcgtc ttaacttcct tgtgtggacgat
15481 gggtgtggta tcaactctgt catgggtggt aattaggttt aaacctggag ggtgatgtgg
15541 catagatgtt ggcaaacttt ttaatgtcaa gggctggata gtaaatattt taggctttgc
15601 aagccaccta ttctctgtca tgaatactaa actgtgactg tagcacaaaa gcagccacag
15661 acagtatata aagaaatgag cctggctgtg ttccaataaa actttatcca caagaaccag
15721 tggagagcca catgcagctg gtgaccatag tttgccaatc cctgatataa ccattactca
15781 cctgtaatcc caacactttg ggaggccgag gcgggtggat cacctgaggt caggagttcg
15841 agaccagcct ggacaacatg gtgaaacccc atctctacta aaaattcaaa aattagccag
15901 gcatggtggc gggcacctgt aatcccagct actcgggagg ctgaggcagg agaatcgctt
15961 gaacctggga ggcagaggtt gcagtgagcc aggattatgc cactgcactc cagcctgggt
16021 gacggagcaa gactccaaga cttcatctca aaaaaacaaa aaaagacaac aacaaaaaaa
16081 ccagttactc aacatagtat catagttgtt acattaagta acatgcagta gcaaagtaag
16141 cagtatcaca gagtcatata tgacaagtgt tttgagtcca taacaagtcc tcgttcttgt
16201 cctcgcagac ttgttgatcc caggcaaggc acttttcctt tctgggtctt ttatcagtac
16261 gacttttgat tcagcagcag tagtcttgtt tagggggcag gggcagaggt taaggggac
16321 agggaagtat ataaaggact tttattctta tgaatccaaa cagagggcag agttgtctgt
16381 gctttgtttt ggtgccatgg atgtttaaaa ggataccatt gtcttctgtt catttaagct
16441 acccatttta tcttttctct gttacccaga atatcagtcc tgtttaacaa atatgtaatg
16501 attcaaaatt catttgcagg tttttaaact ttgacagtgg tctcctctag cagagatttc
16561 agatactatg tattcagaga cagaaacatc attctgtgct tatctcagtg aaagaaaccc
16621 aggaaaggaa tcccagcccc tcctacatcc tctccaagct acaggcatgt ggctcatcca
16681 ggaggggaga agggagcaga gaagccaccc tgggtgtctt ctcacccata ctgctaatcc
16741 tgacctgacc tgaaatttaa tataatcaag gcaaaatcag attaaaatgg agccaaatag
16801 ttttacactt caaatagttt ttacgtacat aaaaaatata tggtgttcgt tttaaattat
16861 tcatattatt tgcatatgct aaaaaagaaa tcagcatgct tcttgaaatg tcttaacaat
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FIGURE 1 (continued)

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16921 ttaaaatatt tataatataa ctgattctta aactttttata taatgcagta tatttgaaat
16981 tttaaaagtt caattattta cattctcctt gggaactaca ttttatatat tctgttactt
17041 gtaatcaaat aattatatga cattcttaat gtctgtacct acaaacattg aattcatgca
17101 tatttataag gtagcttatt gactataatt cattgttgac ctttctgatg attctgtagt
17161 tagatttta aaatatgatt gaatgtggaa tatctaggca tagactaaca tgggtttgaa
17221 tcttagctgt gacatttatg agctgtgggc tcaacacttt aaaagtaatt aactgcattt
17281 ttcatctttt aaatcattct ctgagaaaaa gtcaactcct taattagtcc ttgtttgaat
17341 tatgatcaaa tagtattggt ttgtacagaa tgatgctaac ttaggatcca ggcgtatagat
17401 ggctgcaacc ggaatagagc catttagtca tcatatgtac aatagagtaa gaaatgcaaa
17461 aaaaaaaaaa aaaaaaaaat agatacaaga taagagcact tttaggttct aagaatttaa
17521 aatgtgtatc taggttagag tgaattgggg tgaaatttcc tgtgcttcca agttaaccag
17581 tagaagtgtt gaaattgatt tcaagaattg atagtgtcct attaaacaat cagaagacag
17641 aaggtactag tgagaagtct tgatttgact atggggctaa tagggagggtg cttgttgtgc
17701 aagctatgt gagagaatag ctgtatcagt agagtaaaag accctagagc gggctgggtg
17761 cagtggctca cgcctgtaat cccagcactt tgggaggcca aggcaggtag atcacttgag
17821 gtcaggtgtt caagacccgc ctgaccaaca tggtgaaacc ccgtctctac taaaagtgca
17881 aaaattagcc aggcatggtg gcggatgcct gtgatcccag ctactcagga ggctgaggca
17941 agagaatcag ttgaagctgg gaggcggagg ttgcagtgta catgtgtatt ccatatatac
18001 aagtgaagat atgaatccat actgataact tccagtccag caccactgaa tttattctag
18061 tcgtctccat ttccttctct tcttcaccca cagtgagaaa cctggttcgc acctacagta
18121 tgtttacata tttgctcagt tctagtatat aaataaacta gtttcagaaa tccttacctt
18181 tactcctgta agaaacagat ttaaaattac gtgcagcgtg tgccattctt gtctctagcc
18241 ttcacagtct ccagtcaaaa ccctctttgc caaggttatc taggacaggg ccttacttttc
18301 catgcccta gcgtggctgt gccatccatg cagctgcagt cagagccgtc tgtctcagct
18361 tgcattcctc ttaggttcac ctcacatcct agttgattcc gtttttattt acttacaata
18421 gaatttactt tatggtgtat agtacgtggt ttctgacaaa tgcatagaat tgtatgttca
18481 tcacatggac acaaggaggg gaacatcaca caccagggtc tgttggggggt gggggacaag
18541 gggagggaga gcattaggac aaatacctaa tgcatacggg gcttgaaacc tagaagacggg
18601 gttgatgggt gcagcaaacc tccctggcac atgtatacct ccatggcaca tgtatgtaac
18661 aaacctgcac atttgccaca tgtatccctg aacttaaagt ataataattt ttttaaaaat
18721 tgtgtgttta tcccaccttt cttttctaat gttggtaatt tgtatcttct ctctctcttt
18781 cttggctagt gttaccagag aatttttcta agaacccagc ttttggtttc cttgccttttc
18841 tctattttttc tttttttcaat gtcatcattt ctgttcttat tttgattatt ttttccctct
18901 ccttgctttg agtttagttt gatctttcttt ttctgatttc ttaaactgaa aatttagatt
18961 tatccgagaa ccttcttttc taatgaaagt tttgaatacg ataaatttcc cactgaccac
19021 tgcattagtt acatcccaca aaattcgaat gttgtgtttt aatttttcatc cagttgaaaa
19081 tatttgacat gttttgagac ttcctcatta acccaatgaa tatttagaga tgtgttcttt
19141 ttttttcttca acttctaagt tcaggggtac atgtgcaggg tgtgcaggtt tgtcgcacag
19201 gtaaacgtgt gccatggtgg cttgctgcac aaaccatctc atcatctcag tattaagccc
19261 agcatttctt cctgatgttc ttccccccaca ccctatcac ccccaacag acaggccccca
19321 gtgagtattg ttccccccaa tgtgtcctcg tgttttcgtc attcagctcc cacttataag
19381 tgaaaacatg cggtatttgg ttttctcttc ctgcattagt ttgctgagga ttatggcttc
19441 caaatccatc tatgtccctg caaaggacat gatctcattc tttttgatga ctgcagagta
19501 ttctatggtg tacatgcacc acgtttttcct tatccagtct atcattgatg ggcattcagg
19561 ttgattccat gtctttgcta ttacgaatga acatatgcat gcatgttatc tttatagtaa
19621 aatgatttct gttccttttg gtatataccc agtaatgtga ttgctgggtc agatggtatt
19681 tctgcagagg tctaggtctt tgaggaatca ccacactgtc ttccacaatg gttgagctaa
19741 tttacactcc cactagcagt gtcaaagcat tcctttttct ctgcaacctc tccagcatct
19801 gttatttttt aactttttaa taatagccgt tctgactggc ctgagatggt atctcattgt
19861 ggttttgatt tgcatttctc taatgatcag tggtgttgag cttttcttca tgttgttggc
19921 tgcatgtatg tgttctttttg agaagtgcct attcatgtcc tttgcctgct ttttaatcgg
19981 gttacttttt ttcttataaa tttgtttaag ttccttgtag actctggaca ttagacctttt
20041 gtcagatgga tagattgtga aaatttctc ccattctgta ggttgtgtgt tcactctgat
20101 gatagttcct tttgttgtgc agaagctctg cagtttaatt agacccccatt tgtcaattttt
20161 tcctttttcgt gttttcgtca taaaatcttt gcccgtgact gtatcctgaa tgatattgcc
20221 tagattttct tctagggttt tcatagtttt tcatttttaca tttaagtctt taatccatct
20281 tgagttaatt tttatatata ttgtaaagaa ggggtccagt ttcagttttc tgcatatggc
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FIGURE 1 (continued)

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20341 tagccagttt tcccagcatc gtttattaaa tagggactct ttcccccat cacttctttt
20401 tgtttgttga agatcagatg gttgctggtg tgcagtctta tttctgagtt ctctattttg
20461 ttccgttgat ctatgtgtct gttcttgtac cagtatcatg catgtgttct ttaattctgc
20521 aataatttga tggttttca gatatcctcc aattaattga tttctggttt aattctgttt
20581 tcatgtaaaa acacactctg tatggtttct actgattta aatagttgag gtttattttg
20641 tagctcagaa tatggtatgt actggtgaat gttccacata cccttatata aaaagtatgt
20701 tctgctgttg agtggaacat ttctataaat gtctattagg tcttgatagt gttttgcggg
20761 tcttttatgt tcttcctgat tttctattta tgtgtcccat taattaccga gagtggatta
20821 ttgaagtctt cagctctgat tatggattta tttttttcag tttccgctcc tttatttcga
20881 agctctattg cgtacacact taggattgtt atgttcatgg gatgacctat atcattatgt
20941 aatgctcctg tttatcttc ataatattct ttgctctgaa gtccacttcg tctgatatta
21001 gtatagtttc tgcagctgta ttttagttat tgatttatgg tatatctttc cccaaacttt
21061 tattttcagc ctacttatgt ctttatatca atatttaaaa tgcgtttctt atatacagta
21121 tatacatggg acttgcattt tattcagtcc tagtcatttc tgtctttaa tttatgtgtt
21181 agaccacccc ttttaatgtt attatttgtg taattggatt aaaatgtacc atattggcaa
21241 ccgttttctg tttgtttcat ttttgggttt cagttttctt ttgatgcctt ctctagtatt
21301 aactgagtgt tttttatgat tctgttctat ttcctctact gacttattat ttatactttt
21361 aaaaaattgt atttatctac cttcagataa tattacattg ctttacatgg agcctataga
21421 ctttactgca gtttatacac agctccttct ttccgtgctt tatgctattg tggccatacc
21481 tttttacatt tacatctact gtgaacgcac agtacattgt tttacacatt caggtatctt
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21601 ctttgtttgt ttgtgtagat ccgggcctcc atctgatgtt gtgttccttc tgcctgagga
21661 acttccgttt aacatttatt gtccactagg tcaagcagct ggcaatgaat cccctcagtt
21721 tttgtttttc taagaaagtc tgtatttctc tttcatcttt gaaaattatt ttcaatggc
21781 atagaattct ggatttaaca gttttcttga tattgttacc atatttttta tttgcaccat
21841 tttcattgga ttctttttaa tagttgtcag cactcagctg aaagtcccat ctgttattgt
21901 ctaccttttcc ctttagagcc ttcaaaatat gaaccatagt tattttaaat tctcagtcat
21961 ttctaacata ggtgtcatat ctgactgtgg ttctgattat tgctttgtct ctctgaagta
22021 tgttttttttc ttgccttctt gtatgccttg taattttgtg ttgaaagctg tacatcttgt
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22141 cctagaggcc tttagtgtgg gagttagagt ttatctagtt aggagtttgc taggtttgag
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22261 gtgttttggc tggggggttgg atcacaagaa catcacctgt tcagttctag ttttaggtct
22321 tcctttttgca ctatgcctca gaaagggtct ctctgcacat tcttgttctc ctgtttctct
22381 ccaagcactg ttttgttacc tgtaatgcta agctccttag cttgacattg tggggcaagg
22441 aggaggatgg ggtgctgtct ctgttccgat tgagttacag tctcgtacct gcaccatttt
22501 cttaggtttc tgggctgtga ccttctcagt tctcctccct ctcccccaag tgttgtggga
22561 gtttctgtgt aatcctgtcc ctccccaagg agacaggttg tatgtgtatg tttttcctgt
22621 tccctttcca cactgcagtg agttttcaag agtgtcctaa ggacaacagt gcgtgccgcc
22681 cttctcctca caggataggt cttttgtttt cctggtggag acaggggaga tggatccagg
22741 tgtagttcct tgccactcct ctagagttac tgcttctctc ccccatatct ggaacacagc
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22861 tgtgagaatg taaccctcag aggtttcaca caatcttggc agcccactct tgactctaac
22921 cagatacttg agcgggactc ccctgactgg ggttctgttg tgtctgccct cggtgacaca
22981 agcttgtgtc tccttagatt ttgggctgtt gattatctgg gacctcggct tattgatggg
23041 tttggaaaaa gttaataagt ttaaagttag gctgtacgtg tgtgtgtgtg tgtgcgcgcg
23101 cgcgtgcacg tgcacgcttg tgtgtgtgtt taacgtaaac aggtcccatc cttgttagac
23161 tttacagcaa gagcagcctt gaatgaaatc atccttttctc tccagtaact tattctccca
23221 gtcattcagt tctctttagt cttttttacaa attttacttc tttaaagaag atgcgtctcc
23281 aaaaaaaaaa aatacctaat ttgctactga tgtggcaaat tcaagtcaaa ttgaggatga
23341 ctcgaattt acaatgccaa acaatcctga tggccaactg tcttattctt ccccaggcc
23401 ttctcctcag ccaggcggga ggctcgttgt gggcagggtc cttgtctttt ataatcctcg
23461 cagagttgcc aaacctataa aaaattttta aaataggcaa ggtagagaag tagctgaggt
23521 gcaggagtct gggtatttac ccagaaatca cacattcgtt ctccagcata ggccctaga
23581 gccagtcaat actttggtat tattttattt cattacttat tttacagcat aatagtagaa
23641 ccctaaaagc aaaagcctta tgaaatcaca tgctaacaga acctaaatgc atgtttcatc
23701 ttagagtttt ttaattataa aagtagcaca cgtttgtgat aaataatgta aaatgtcaag
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FIGURE 1 (continued)

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23761 ttctttcat ccctagaaa taatcaccct ccaatctttt ctatgggtct tctaaggctt
23821 ttctctaaac tcattttgt catatacaaa gaaaaagtaa aaaattaata tctaggccat
23881 ttgggaaagg cagcctattg cttgttgctc tgtttacatg tttgtctctt ttcaaaaaaa
23941 tacctgtaag tgcagaatgt atcacagcta aactgtacat tgtctaatgt catctttatt
24001 atatctcagt gacattcctc ccccataact aaattttatt aagctttcag tgggaaaagg
24061 cctctaattt gcaagatttt gaaaatgtga agagtttaaa agttccacat gagcttatga
24121 gattttgaa actatttcct ggatcatctt gaagattcct tgttaaactc agtttcacat
24181 gatgttaaga ggctgatact aacgactttt agataatatc ccccttcta tgaggaatgg
24241 gttgaatcat atcacagaag aaattgacag gaaattgtag catctctctg agtaaataag
24301 aaggcttaca cattaggtga atatgacgac acggaggacc attgaaacat gcctgtgtca
24361 accaaaagaa gaagctaaag cacaaagtgt ggttgaaaga gttgacttga gccagaataa
24421 ggacagctgc ccagatgact cacccaaact gcttgcttgg cctttgttac aggcagattt
24481 ttaaagcaa aaagaaaaaa acaaaaacaa aaaaacagga ggcaggggag ggggccggt
24541 gttaccgagt agactgttag acagttctgt caggaattct catggatata cagaagtaac
24601 agtgattagt gactgcctgt ccacggttaa gctatagaat gtgggatata gtgtccagtg
24661 ccacattact aggttaattc acagctacct gtggcaatgg gaagcagctt cagtaaagtg
24721 tggagtagga tgtgattgct gtctcatctt aatgcctctt tggggcctag taatttgaaa
24781 gggcccacat tcctcagata aaagtccttt tctttcctca tctataatac tattcaaatc
24841 taaagaaaat gtatgttgct cacagatacc aacagccatc agtttttgt gtttgattta
24901 atttgttcag taaaaggaag atacacaaata gggaaaaagc tcaggaaaag agttgcgttg
24961 aactctttat taattttata tgtagttcag ttgtgtttta aagattttca agtgcaaatct
25021 tagaggcctt catttccttg tttcttgatt accctccacc tgcctcattc ccttctgag
25081 agtcatttcc cattcctcgt ccctgacccc ggccctccc gcagagctgc cctcctctga
25141 atcctgatgg ccaactgtct tattcttccc cagggccttc tcagccaggg cggaggctcg
25201 ttgtgggcag ggtccttgtc ttttataatc cttgcagagt tgccaaacgt ataaaaaatt
25261 tttaaaatag cacttgtgca cttggaaagc attccatcac atacctcttg gttgtttta
25321 ttagatgaaa aacagagatt cagttatgag cgatctggat atgatcttga agaatctgat
25381 ggcccagatg aggatgacaa tgaaaatgaa gacgatgatg aggacagcca ggctgaatca
25441 gtcctgtcag ccacaccctc agtcacagct agcccgcagc accttccatc tagaagtagc
25501 cttcaggacc ctgtgagtac tgacgaggat gtcaggatca ccgattgctt ttctggggta
25561 cacacggacc caatggacgt tctgcccagg gcgctgctca ccagaatgac tgtcctgagc
25621 acagcacagt ctgactacaa taggaagaca ctctctccgg ggaaggccag gcagcgtgct
25681 gcgagagatg aaaacgacac aattccgtct gtagacactt ccaggtcccc gtgtcatcag
25741 atgtctgtgg actaccctga gtcagaagaa attctgagaa gttctatgc aggaaaagct
25801 gttgctataa cacaggtaaa tgattggcag ttgttctttt atttctttt tcgttttaac
25861 ctattaaata tggagaactt aatggcttaa gaaaataatg cacttaagtg attttttag
25921 gccaaatcag tttgtatagc tttatttttt tcttgtattt aagggtaagg ggtattttg
25981 cccttggag tcttgttgag tatcttaagc agttcagata ttttattgta aatcatgaa
26041 agaaccaaat ggttcttgaa aaatacaccc atttattttt atttgctttt tgaaaaattt
26101 ttgaaattaa aaaaaaaaa aaacgtgaca gtggcgaaca caagtcccgc aactgattta
26161 tctgctggcc ccttctgagc agtttctcca ctggtgctga tgtgatgatg gattttcact
26221 gacttaccca aacattttgc acttttgccc cattggcaag acagctacca gtttctatgg
26281 caaagttaat gtgacccgaa aacacatcaa gaagttcact ttgcttgaat tatcacattg
26341 ctacagcagc ttgggagagc tttctgccca agaactatct caaggcaggc acaggcctct
26401 gaaaagtcac gctccatgtg ctgtgagtga gtccctgctc tacctctggc tgtttgtga
26461 caaatgatta attctgggag gaatacattc ttccctcatt gacagttctc ttacctctag
26521 tatgtattga atattgcaat aggatttatg cctaattgtg gcagattgtg ctgtaagcgt
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26641 tttcataaac ttgcaagtga tagacaaaca accagagaac tttttcatag taacatctct
26701 tcacaaataa ttctttagtt cattttccc cattgagttg acatagccaa cttgaatctc
26761 aatttctcag taactcttaa tctctaaaat aaggtggagc tggtagtgcc agaaacagaa
26821 ataataacaa aaatagcagc ttaagaatat agctgtgtcc acttctcaga gttattctct
26881 gtgtacaata tgacaaaatc caggaaattt gcttcagaca tgcaaaagac tatacaagat
26941 gtattgccat tatttctacc agaaacgaaa ttaaagatgt aatttttatt taattggaag
27001 cttattttta aaatcgaaaa aataatttca ttgcagcaaa catcattttt atcaatgcaa
27061 atatacttac ttttatctca ttgtgaagaa atagatttag cactagcttt atatctcagt
27121 gattacaaaa gacctgtcat aaaaggattg ctctctcttg tcatttagag cccatcatct
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FIGURE 1 (continued)

```
27181 gtaagacttc ctcctgctgc agctgagcac agcccccaga cagcagcggg gatgccttct
27241 gtggcctcac cacatcctga ccctcaagaa cagaagcagc aaataactct acagccgact
27301 ccaggcttgc cttctcccca cactcatttg tttagccacc ttcctttgca ttcccagcag
27361 caatcgagga caccttataa tatggttcca gttggggga tccatgtggt acctgctggc
27421 ctcacatact ccacgtttgt gcccccttcag gctggaccag tgcagctcac gatccctgct
27481 gtcagtgtcg ttcacagaac tttgggtact cataggaata cggtcacaga agtgtctggc
27541 actacaaacc ctgctggagt ggctgaatta agcagtgttg tgccatgtat tcctatcggc
27601 caaatccgcg tgccaggcct tcagaaccta agtaccccag gcttgcagtc actcccctcg
27661 ttaagcatgg aaaccgtcaa tattgtaggc ctagccaata caaatatggc cccacaagtc
27721 catccaccag gactggctct gaatgctgtc ggactgcagg ttctgactgc aaacccttca
27781 tcacaaagca gccccgcccc tcaggcacac attccaggtc tccagatctt gaacatagca
27841 ttgcccacct taatccctc agtcagtcaa gtagccgttg atgcacaggg agctccagaa
27901 atgccagctt cccaaagcaa agcatgcgag acacaaccca agcagacttc tgtagccagc
27961 gcaaaccagg tcagcaggac cgagtctcct caggggttac ctacagtcca gcgggaaaat
28021 gcaaaaaaag ttctgaatcc acctgcccct gcaggtgacc atgcaaggct tgatgcctg
28081 agtaaaatgg acacgagaaa ggctgcctca gcaaatcacg tgaagcccaa gcctgaactc
28141 acttccatac agggccaacc agcgtccacg tcacaacctc tgctgaaggc acattctgaa
28201 gttttttacaa agccctcagg ccagcagact ctctctccag acagacaggt tcccaggccc
28261 acagcactac cgcggaggca gcccactgtg cacttcagcg acgtgagcag cagtgatgac
28321 gaggacaggc ttgtgatagc aacctgatgg atttattt ttatttgctt tttttttata
28381 taacacttaa aggtttcttt gaaaaccctc cttccttaa agcacatttt tctgacataa
28441 actcatgact aatctttgtg caatcatgaa cttttgacca ataattgttg ttttgtgtca
28501 gctccagcca tttttgtaca tgttgtatag acaattgtgc cttttaggag cttttatgttt
28561 agaaactgta cagattgttg aatatctata tacatazaaa tatattatat atgtatatga
28621 aaaccaggta gttatttgtg tttagtaagg aaaacctgtc aaataaatca aatgattaaa
28681 ttatatgttc cactgttgaa tataaatttt atggctatgg ggcagagttt ctgtgtataa
28741 attagtatgt aaactccata tttattgtat tcatattagt cttttgaaaat gggtctgtcc
28801 tccttgtgta agacagtaac tttacattc agacagattt tctgtgttat gaaatgtttc
28861 agtaaaaatat tgtttactga ctttaccatt gcttcagttg tgccttcttt atatcatcca
28921 gtgatcagtg atctgcattt ggaaaatagc cctgggttcc attcttcca cattcccctc
28981 aacccttcat tttttttata aacagagact ttactcgcct ttctaccatg tgaaactgta
29041 actgaaatcc atacaactga ttgacctatt tttcttattt gtgagaagtc atttcatagt
29101 tattattaga agactaaata tataagaata ctttctgtat atacataaag catatagcct
29161 aaaatgggca acgttcctaa atgagggtat ggaaatttct gggaaacatg agttaaaccc
29221 cattgtcctt agaatttggc tcagatgaga cccgtataac ctcatttcca ggctccaaca
29281 ccagatccat tcgtgggcta tgggctcttc tttccttttga tgctgttaaa ctcacagagc
29341 tctgtccagc actgaactac agagtgtcca agattaccga agagccaaat tcagacttct
29401 aaattactta agtgactctc tttagacatt actatttcct gtcctggaag gttgaaccat
29461 ccttattcag gaaaatatgg cggcatgggg agcccccaat taccagtgca gtgatttgca
29521 ttattaatga ttatagatgc taggtttatg agaaaagtat tttaatgttg gaatttaaat
29581 acttagcaca tcattaagtc aatgtattca cattttttaaa ggcttgctta acaaagattg
29641 cagagacatg aaataagtaa gacaacagca tggtttgcga ggtgagaggt aggggacagc
29701 ctatctacta agggggtttgg agacctgctg ctagccaacc cagcttcacg tctgtgactt
29761 tgcaaagacc tggcatttca acttgcgtat ccttatctca attaggatct ccaaggtgtg
29821 ctgcagtccc agcacgcact ggtggatctg tgatgcttta aatgaatgct tcaatttaca
29881 tttacatatt tccatagatt aagtaacaaa attctctcaa aaacaataaa actacatttt
29941 tatattctga gatagctttg gaaagaattc tggaaaatatc tgctctaggg attgcgttgc
30001 cctatcaata atagctgttg aaaatgaggt ctgttttctg tccagtttct caaaattaat
30061 gtttaactg tgtcatgaac ttttttattgc ctaaaatttt aaagcagtat aataagcata
30121 ttcttaactc cataattaag tacagatgac ttctctaaat tcaaaaataa tgcttggagt
30181 ttttagcatt gaggttttt agtttctata gaattttctt aatttaaaaa attcctatac
30241 ttaaagacaa gtgttacgat gtgagtggat gttcccttga aattttcata atgctgtaat
30301 gtaccttact cttattttgt acttttcaag attcttattt tgggcttttc aaaattcaat
30361 gcatcgtgca aatacctta ctattggcaa ctttcaagct ttattgtaac ctttcaagta
30421 ttttgctagt atttgaaata tgcagctcta taaaaatat taccaaagtc taagccatta
30481 tattttgaaa ttacatgcac aaaatagaca agggaacaat aattttgtgc tatttctccg
30541 aagtcgtctt ttcccaagga gcagtgtcca cttgatactc ccaaatataa acgacttcca
```

FIGURE 1 (continued)

```
30601  aataatgtaa ttcggagaac taatgggact acatttgact tttattctgt tgcactgtcg
30661  tgtgtggaga cccaggcctg tagagaacta gggtgcaatg acatagtaag ataatttatt
30721  gacaaaacag gtgaaagttt taatgtgtaa caatttcaat accttgtgtg aatccactgc
30781  aatgccatca tcagaagtac tggaaaaaac agctgaagaa ccacaggtcg tttttctagt
30841  taaagattat tatatctggc ttatgaaaat gtattataac ataaatcgag ggcgttccaa
30901  taacttattt tcattcccta aacttttaagc caaaatgata attatttctt tcgaaatgat
30961  aattaaccga tggtattgaa tgtacaaatt ttgtttctca gttatatttt tcataatata
31021  gacctgattt tcctttcaca gaaacagtat aagtaacacg tttcttacta attaatccct
31081  ggcctgaatt ttaaatgata gcagttaata aggattatgg aaaataatca ttatttttgt
31141  tggaagactg tcaagatagt taatagatct tgattcatgc tcagttcaaa ttataacatc
31201  agggttcttt ttgacttttc tgtttttcat cttacatttt gcagtcaact tcaaataata
31261  ccagaaagat gattttcatt aattttgttt caaaaccatc tacaattcatt aaatacagca
31321  tgtatatcac cttaagaatc ttctctcaaa gtgacttccc atgacttaaa attctaaatt
31381  tcctacttaa tattcaaaat atgtattttg taatatatat ttgtatatat ataatatatg
31441  tatatattac atgcatgtta tatatacgtt atattacatg tatatataca tgttatatta
31501  catgtatata tacatgttat atatacatat acatatatat gttatatata catatataca
31561  tatatgtgta taatatatat acatatatac atatatgcat aatatatata catatataca
31621  tgtgtatatg tgcgtatata atatatacat gtacatgtgt agatgtgcgt atataatata
31681  tacacatgta catgtataga tgtgcgtata taatatgtac acatgtacat gtatagatgt
31741  gcgtatataa tatatacaca tgtacatgta tagatgtgcg tatataatat atacacatgt
31801  acatgtatat ctgcgtatat tatatataca tgtacatgta tatatgtata tattatatat
31861  acatgtacat gtatatatgt atatattata tatacatgta catgtatata tgtatatatt
31921  atatatacat atacatatgt gtatatatac atatatatgt gtatatatac atatatacac
31981  atacacgtat atatgtatat tatatataca tatatacgtg tatatctata ttatatatac
32041  agatatacgt gtatatctat attatatata gatatacgtg tatatataca tatatacata
32101  tatacatata ttatatacat atatatataa tatacagata tacgtgtata tatacatata
32161  tacatatatt atatacatat atacatatat acatatatta tatacatata tattatataa
32221  ttatatatac atgtatatgt atatattata tacatataca tgtatatatg tatatatata
32281  atattttata taatatattt tagtggcaat aactcctgc tctcattacc aagtggggaa
32341  aaaaaggaaa aaaggtttaa agcaagaata gcaaaatgtt tttctataca aattatatac
32401  agactgttca caacttacta tggttcaatt taatgatttt ttcaacttta cactgatgtg
32461  aaaatgataa gcattcagta gaaaccatac tctgaatttt gatatctttc tgtgctagca
32521  atataagggtt tgatctctta tgatgctggg cagcagcagg agccaaagct cccagccagc
32581  tacgtgattg taaccacaaa cacactacag tgcactgtat tcaatacatt atacgagata
32641  ttctagactt tatttattt taaatataata attgttagat gatgttgtcc aactgtaggc
32701  taatgtaagt gagcacgttt aaagtagggt aggctaagct atgttgttca gtaggttaga
32761  tatattaaat gcttttttgt cgttgttgtt gttgaaacag tcttgctctg ttgcccaggc
32821  tgtagtgcag tggcgcaatc tcagctcagt gcaacctctg cctcccaggt tcaagtgatt
32881  ctcctgcctc aaccacccga atagctggaa ttgcaggcac acaccaccac actggctaat
32941  ttttgtattt ttagtagaga tggggtttca ctgtgttggc caggccaatc ttgaactcct
33001  gacctcaagt gatccgcctg cctcggcctc ccaaagtgct gagattacag gcatgagcca
33061  ctgtgcccgg taaatgcatt ttttatttag gatattttca atttacatta gattcattgg
33121  gatgtaaccc catggtaaat caaagaacat ctgtaatctg aaagtcatga tgcatttact
33181  taaatatatt ggattcctag tctttgcaca cacaggttta tctggaacct tgcttataaa
33241  ggttctctgg aaggcactgt aggcataaga gacattatct gctcctaggt gttcactgtc
33301  ttctgaatct ggcttgggtt tgaagaaaac gcccagacat ccaaaatcca gtaataattt
33361  aagtaccaac caactccaaa agaaattaga aggtacagtt tctaccccag aggagaatgc
33421  ctgcttaaga cagatcaggt aaactaggac atgacaatag accacatcat agagaccaca
33481  gactttaaaa atgtatgaga gttaagaaag tgattgtctt aagaagttaa agaatgattt
33541  gtgtatacag gggattgctg tattttgaag gaggtatggg atttgggact ttagaatata
33601  catgatgcta aggagtagaa caaaaatagt agtcatgaag tctaagacaa atgtgtgcca
33661  gggaccagtc taagtggaag agaggattca ctcagacatt cgataatatt tatttagcac
33721  caatagtgta gaaagcactt tgggacctgt aatcccagca cttcgggagg ccaaggtggg
33781  cagatcatga ggtcaggaga tagagaccat cctggctaac cctgtctcta
33841  ctacaaatac aaaaaaagta gccgggggtg gtggtgggca cctgtagtcc cagctacttg
33901  ggaggctgag gcaggagaat ggcatgaacc tgggaggcag agcttgcagt gagctgagat
33961  catgccgctg cactccagcc tgggcgacag agtgagactc tatctcaaaa agaaaaaaaa
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FIGURE 1 (continued)

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34021 aactttggga atgcaaattt gatgcaaatt aaatgatgcc tgtccttcag gagcttcagt
34081 tctagtagaa gagtaagtaa gcaagatgca aggtatcttg aatggcaaaa gaaggtacca
34141 ccgagtccag caggagtgcg aatgaaggag aattcctggc tgagttgatg agggagtgct
34201 tcaaagagaa tgagacattt aaatatggcc ttgaagg_gac ttggttaagc agagacagtg
34261 gatgagacag aacagacaga agcactgtgg aggagaatcc gtatttatcc ctacggcgtg
34321 ccatctataa tcttatgtaa tcattccaag caggaaggat tatctcttcg ttttataggt
34381 ggagaggctg caactcacag atgtgatgaa accttgccat gcagatgctg ggatttgaag
34441 ccaggatggt gtgatgcaac agcataacac ataagcaaat agtagggaac gtgaaagggc
34501 attgagacca agggaataaa ccacattttg ggatttagca aggcatctga cgaagccgca
34561 ataatattat ggttggattt aaggatgatt agtacggtgg gctcgtcaag tggaaagagc
34621 aatcagtggg tcagagcact acagggaaag gagcacgggc tgtggactcc agaaaccatc
34681 actgtcactt ttctaatgtg ttaataactt acgggagagt gaagcagtca caggacacaa
34741 aagtaaggag gaaaggggag taatgcagag gagggtggaa gcaatcacga gtgacccagt
34801 gccaagctgg ccacgtatt ctttcttttt agttggcgga ctgaataaaa tagaggaaac
34861 atttgttgat gacccaaata ggtcaggatc agtgtccaga agattcaacc aagtggagag
34921 atgggctgaa tatgaataag acaatttaac aagaaagcaa aagccttggc acttggattg
34981 aaaatttaag tgtactaaaa aacagcagtt tgctttgcac aaagttcagt atgtgccacc
35041 ctcatccctc cctctcccaa gaaaaagcct aatctggggc atagtagaaa tacgttattt
35101 attttttatt ttatgttttg tagagatggg attttgctat gttgcccagg ctgttcttga
35161 actcctgacc gcaagcaatc ctactgcctc agcctcccaa agtgctggga ttacaggcag
35221 agccactacg cccagccaga aatccatgat ttcataatac attatgtaaa accacactct
35281 ataccctcat gatcagagca ttctggggag catcctccata atcggactcc aggcttgaac
35341 aagatacaga caaaagagca cattctgagg ccatcaggct ctgaggccaa gctcacagtg
35401 gccccctgtga gagggggctgg aaataggata atctggcggg ttcctcacct gatagctaag
35461 gacacaccta gggagagtca cagagcagaa ataataaaaa agaagttgcc tttctggtgg
35521 aaggagagag agttcaggga ttgtgaaaga agagaaagtg ggctattgtg agggaaatgc
35581 catgtccccg ttcatttttg tgtaaaacta agctgaacct cacagcaaga agctagtggg
35641 aattcatggc tcacagctaa agctcatatt tgcataataa tcagacataa atatggaaga
35701 acatagtgat ttctcttcaa ggaagactgc aagttaaac attctagtat gattcacgcc
35761 aatcctctaa gatgtattgg gatcagccgg ggaggcaatg cttagctgtt caccccctcca
35821 cttgattcctc aagcgagttc tgaatggaca ccacctccaa gagctcggac tctgacaact
35881 agatctgctc tgagaaagta gacagaggca gctgagaaga gcctgggact caaacccatg
35941 acccacccac attccatcat ctgggagaag gaccaggcgg acatttctct aagtcaggaa
36001 tcaagttttg ttcattttgt agatttggcc tttcagacat aattaaaagt ccccatgaca
36061 tttaacaaaa gttttctaat tactttgctt ttgttctctg agaagctagg gctgtctcat
36121 tccatcatgc ctgaggtgta cattagatat tgtattaagg gtttatttca gcacactgaa
36181 caactgttct tttgaggtgc tagattgtta ctgggaacta gattgttact ggggactgca
36241 tgctcaggta aggatggaaa agtggaaatt aaggacctaa ataagtttta agttttattt
36301 ccccaccaccc tagaccataa atctcattct gaaaaaaaat atagctgatt ttggtaatta
36361 ttaagacacc tcaaattaaa caggaaattt tcctggctca aagagatatt gataaatgac
36421 ttttcaaaga taggtaaatt ttcttactta aactaacaag atattaagt taaattttga
36481 gattataggt catgctctgt tggtatgata gtgtttatt aaaaaaactc acattttata
36541 tagtgcagta tttttaattt taacatttac aacagatatt gcattatatg aagtcattct
36601 cacattgtgg ttgagataat tgctcagggt tgcaaagcta gttaagtagt gaggctggga
36661 gttaaaacac ggtcctttt tttttttttc tactgttcca tgctgctttt tcagtaatga
36721 tttatgataa ttgggttgta ttgtattcat ttctaggtga aagtctattt agtattcata
36781 aaacatcccca tttaaatttt ctacaaaaac gagtatgtcc agtgccatgc atatttgtat
36841 aaataataga tttttgtaacc ttttttcttg ccctttctca caactgatat aataggagcc
36901 ataaaaatat ttagtgaaga aacatttaac ttaaatagca ggagataaaa gagcaatcca
36961 aagtgacagt tctaatcaag cataacacat gtaaacttcc aagtatatta ggtttcagtt
37021 cttcatcatt attcagaaaa atgtctttgt tacatgtctt atgagaaaag attggaggga
37081 agacagtgga gcagcgattc acattgtttt gagtattgac attgttggaa tacagcataa
37141 catattatat tatgaagttc ctgagtctga tcttttcaga aatatttcca aaagaaaatg
37201 gagcaatttt ccattacatt ttataaagaa gataattatt taaacatatt tctcctagga
37261 aggggacagc aaattgcact gcttttatg tgcagacttt atgagggaaa gaaagcgatg
37321 acaggaactt ggaaatgaag gcgtttatac attttagcta taaaaagcgt aagagagaaa
37381 aataaaatatt tgttctgttt agcagatgat cccatattgc agtataaggc aatagaggtc
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FIGURE 1 (continued)

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37441  cctacatata  aaacgtaact  ttttttcttg  tctgattctt  acttttggtc  ctgaaatgca
37501  gacgtgaata  attagataac  ttttatgatg  tctatatatc  tgtgggcttg  aaaaagatat
37561  ttcacgaaga  ccaatagaca  tttgttatgt  tgttgaattt  gcttgagaca  agacatcttt
37621  cattcatttg  ttttcagtta  cttgaaagac  agtatgttta  gctagctacc  tatgaatgtt
37681  gccaaatgag  atctaaggaa  accatgatag  gtgaaagaca  tcagggcttt  acattcctgg
37741  agatcagtca  tggaaagaaa  agccagctct  gagatcagtc  aattagccag  gcatgcttag
37801  ttttctctgc  taatagcaag  gcttatttt  gcccagtagg  gtcaaatgtt  aagaacagtt
37861  ttgattcagc  agtagtgccc  tttaatacat  ttgaatttat  ttatttcgga  acatctctat
37921  acttttcatta  cacagcaaga  cattttctgt  tccttcaaca  tttttatttg  ccagaagtag
37981  tttacgactt  catgcagtct  acttattatt  catactcaac  catgtgcaat  cataataatt
38041  attgattgaa  caatctggtc  ttcattaaaa  gtatgttaac  tattctaatg  aaataaatatg
38101  catcatttct  aatctacaag  ggttggaaac  ttttgaattc  ataatattga  ttatgagaaa
38161  ccaaatttca  aaaaatatgt  ctatgaggag  aaaaataatt  tctaaaattt  attttttta
38221  aatcagaccc  aaattattaa  aaacttcact  taactaatga  agttaaatgc  ttgatgaaag
38281  cattaagctc  tgttggaaat  agttgtaaaa  tatttagtat  atggtacatc  aaccctcttt
38341  gatacttaag  caaccctagt  acccccaggt  cagtgctctg  aaggcccttt  aaatggagat
38401  aaagatcaga  actgacacag  ggaccccagg  gaccaatcct  ggaaaaatgt  tttgtttgtt
38461  ttgtttttgta  actaaacaaa  ttcctgtgaa  ccctttgttg  tcgtttttct  aaatccttca
38521  aaaaaagaag  aagcatttgg  aagacaaac  agattcaggc  gacaaaacat  ttcaagtttc
38581  tgctacaggt  agaatcgtat  gttctttaga  atttcagttg  aaatagataa  catatttcca
38641  tgatggactt  gtattgtctc  ttagagacac  ttacaacttt  tgttgttgtt  gttgtccttg
38701  ttgttgctat  ttaaataact  ctcttcagca  cgtagaatac  atgccaaatg  tatttgtaaa
38761  tgattttgtaa  tgtaatttaa  gtgatttgta  aatgaatgat  ttgtaaaatc  tgtacatttgc
38821  attacttcgg  tccagagtta  ggggccattt  agatctggtg  gctggtgtga  ataacataa
38881  gttcaatctc  tgttcaaggt  ttatttcaat  gaccatagat  tgtgtctcta  actgttgagt
38941  catctcacaa  atttatgact  aaatagggtg  tgggcaagag  agaacagatt  tacaaatact
39001  atctcaaggc  ttgtcatcta  catactgcaa  caatattatt  agtattgaat  taataattaa
39061  ttggtatcta  atgaatatta  atattcgtat  ctaattactg  ttaaatagtg  ctggtgtttt
39121  ctagtttatc  tgtcaaatca  aaacattagc  ttaatttttt  taagtatttc  atatggaaac
39181  aatttaccag  ctaattgtca  aattatttat  tttctgtgct  tcagtttttct  catctgtaag
39241  ttagggcaaa  agtgccaaca  tgagagggcc  tttgggaaga  taaaaacaga  taatatgcaa
39301  agtatttaac  aaatcctagt  gtatagtaat  atccaaataa  atgttagcac  tagttattca
39361  agtttttcaa  taattttaaa  tgctttccaa  tagaacagat  actaacattc  attcaacaaa
39421  tacttatgaa  gcacgtatca  catgcaagtc  catggtcaga  tgtgtatctg  tgactatgtt
39481  caaaaccact  tacaccctat  ttttaaatac  tgcgctatgt  ttaaaatgtt  tcctaagtgc
39541  tttgcagaaa  aaccagacaa  ggcagaaata  agtcaaataa  gccaaacggg  tcatctctga
39601  cagcttatgt  gaagtcttct  ttctaaaagt  tcgaaaatgt  ggagtctttc  tgtgcattca
39661  ctaagggagg  atgggctgtc  agctggcgga  acagtgtgtg  agatctttgt  agatgacgcg
39721  gcaccatcca  gagggagggg  tacgtattgc  ctggctcttc  tggggttgac  tttattcttg
39781  gtgcaaccta  acagggattg  gtcacagaga  ggagtgatct  ttgcatatga  ttgctactgg
39841  gccctccaca  gagtccgaag  ctgtccggag  accagcatta  gacaacaaag  aagcctcctg
39901  aggctgcgag  gagcccgtca  gccacttagt  gagctgcctc  tgcatctcca  gttctgctgg
39961  gatccgggat  tcttattatg  gcctggcaac  ctccaggtta  ctcacaactg  gcacaagagg
40021  gtatctgagt  gacattgtta  agcagtaatt  agaaacagtt  gattagtcag  agtggtatt
40081  ggtttgactc  ggggtaattt  tgtttttgta  agtcttgggt  tttttttttt  tttttgaaa
40141  cgaagtctcg  ctcttgtccc  ccaggctgga  gtgtgatggc  tgatctcggc  tcaccagaac
40201  gtccacctgc  agattcaagc  gattctcttg  cctcagcctc  ccaagtagct  gggattacag
40261  gcgcctgcca  tcatgcctgg  ctaatttttg  tattttttagt  agagatggag  tttcaccatg
40321  ttggccaggc  tgatctctaa  ctcctgacct  caggtgatcc  acctgcctcg  gcctcctaaa
40381  ttgttgggat  tacaggcgtg  agccaccgtg  cccggccagt  cttgggtatg  tttttaggag
40441  ccgttggact  tcagatataa  aaagcaagct  tgagctaact  cctccagttt  ccccatttag
40501  taaatgaaga  aagcgatgtc  caaagagggt  gaatactctc  catcctttaa  aaaggataca
40561  aagcattgtt  ttttttttct  ttacatttgt  ttaagttcct  tacagatgct  ggatattaga
40621  cctttgctac  atgcatagtt  tgcaaatatt  ttctctcatt  ctgtagattg  tttactctgt
40681  tgatatattc  ttttgctgtg  cagaagctct  tgtttaatta  gatcccattt  gtcaatttt
40741  gcttttgttg  tcattgcttt  tggctattca  caatagcaaa  gatatggaat  caacctaatg
40801  tgtgcccatc  agtgacagat  tgtataaagc  aaatgtggta  catatacacc  atggaatact
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FIGURE 1 (continued)

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40861 atgcagccat gaaaaagaac gagatcatat cttctgcggg aacatggatg gagctggagg
40921 ccattaactt cagcaaacta acgcaggaac agaaaaacaa acactgcatg ctctctctta
40981 taagtgggag ctaaatgatg agaactcatg gacacaaaga gacgaacagc agacactggg
41041 atctacttga gggtggaggg tgggaggagg gagaggagca gaaaaaacaa ctattgagta
41101 ctaggcttag tacctgggtg atgaaataat ctgtacaaca aatccctgtg acacgagttt
41161 acctgtataa caaacctgca caggtacccc caaacctaaa atacaagtta aaaaaataaa
41221 atgatacaaa ggggccatgt tcatggtagc taccagcaca ggctttggag actgtgcttg
41281 ggattttatt cttcctcctc tacctacaag ttttctaaac ttgagaagat cattatatct
41341 tcctgtacct aaatttcttc atctctataaa tgggcctaat gataatgtca acctcagaaa
41401 ttgctgtgaa taaatgagat cttatgtagg tgtttagtaa aggacctgtg tagcctgtat
41461 taagtgttca aagttctctc attattatta ttgttgcatt gattgttatt aatctgggga
41521 gaccaacgtt agaaatttga aaccagaaga taataactga caatcaaatg tcccttcttc
41581 ctctgaaatt ttgactctaa accacaatgt gtctttctaa taagctagat aagtgatagg
41641 ggaattttg tgtttagtaa catttgtttt tgttatttgt tattcatttc tatgtctccc
41701 gtgtcagtat tcaaagtact tcagagaatc agatactaat acataaaatt tatacttgta
41761 atgtaaaata tttaaaagaa tttgattaat ttataaagaa tatttgaaag tgtttgcgtt
41821 gggtttatgt ttcttgtgac tttaatctga aatgtttaag ataacatttc aaagtataac
41881 tatgaaaagg gaagctatat gtttactagg gaaaatatat agtgctatct ttatgacatt
41941 gagataggga aaggcttgca ggtaagaaac aaaaccccaa aatcatgaag gctcgtaaag
42001 tcaagttcat caagaggcaa aactttggta ctaccctcaa aactgtttaa aataaaaact
42061 aaattggagg aaaatatttg ctttatgtgt ctgacagagg attctcctcc aaaacttatt
42121 tcaattattt tacaagttgg tcgggaaaag tcaaataaca cactaggaaa atgttcaaac
42181 tgtgagaata agatccgggc atggtggtgc ccacctataa ttccaacact ttgagagacc
42241 gaggtgggag gattacatgg ggccaggagt ttgagaccag cctgggcaac atggcgagac
42301 cccatctcta caaaaatatt tgtttaaatg taaaaatatg caattcatat tagaaaaaat
42361 ataaatggac aacaggtaca tgggaaataa aggacatctt taataaaaat gagaggaatg
42421 caaattaaaa caagatatgg tttttataac caggtaggca aatattaaga acctaagcac
42481 atctggtatg gcagggctgt agaggaagca gtgtcttcag acacaactgg cagagggagg
42541 tctgagttga tggggccatt tggaaaaaca atctggcagt atttattaga gctacacgtg
42601 caggctctat gttccagcaa tccccactcc cttacatcag ctctagagga acactttgcca
42661 aggggacatg aacgaaaaaa ttcattgtgt ggtgtttttc tctactgaaa aattgtgaag
42721 aacctaaatg cctttcaata gagtaatgtc tgaataaacg acagtatttt cctttttcta
42781 gaatgctaag cagaactaaa agaaaagcgt tagatagatg gatggatctc caagacatgt
42841 tttgagataa aataaccagt tgcagaaaaa tttatacaat gggatccaat ttattttaaa
42901 aatatagaaa gatataaaca aatgaagtat agaatgatgg agtcgtatat ctctatgtaa
42961 aagcacagga aaaggcatgg aatgatacat gtagcacata gcatctggacg tccctggaga
43021 gacgctgaag gttgtgggac aggcaatcag gaggtgatgg ggtttatga ggcaaatgaa
43081 taatacagtt gttttctacc cgagttggga acagattaat atatagatag ggacccaaat
43141 atcagctctg tgactgagga aggtgataat gagggaggtg gcttagtttc ataatcaagc
43201 aggcttgcag tggtcctgtt cctccacctcc tatcattttt tgctcccctg cattcctcc
43261 gcaccatcca ccagcaggct aagctttggg acagtccatg agaagggag cttagttctg
43321 cataacctct gattgggagcc agaaaataaa gagacggata gctcaatctt acagcatttt
43381 catagattgg ctccatcctc cttaaaaata tgagccagtg gtcaccacca acaattagtt
43441 aatgagttgc tccttctcat ccccaggaagc agggaggatg gaagtcgtgg aacacaagga
43501 gctcaaggcc aaggttgctc tcctgctttt accattaga ctactattgt tccatgaagg
43561 tgagtatcac ttacaagtaa cagtatcacc tacaagtaat gtttttttaa aaagaaaatg
43621 tatccatgta atacacataa gcaaaaccaaa aagttcagta gaaatctaca atgatgttag
43681 gcattttttcc caacagtagt tacttataaa taatgttttg tttatttatt atttatactt
43741 acttatttat tatttataaa taatgcttcc aaaaatgatc ctgttaatat aaaacaaaaa
43801 ttaagatata aaacatgaga aactaaacag ctatgacatg aattttcttt taaaagactg
43861 gaaagcattt atcttgtaga aatttcaaat aagctttata tcaatatgca ctcaagatat
43921 tgaatagcat ttgcaaaata aattattaaa atgtctgatc atttactgtg tgctaggtat
43981 cctgctaaac acttcacatt ttttttcgtt taatccttct attaatacta tgaggttggc
44041 actcttttc agttaaggaa actgaggctg agaatggata aaatttgcc tgaggccccg
44101 gaaaatgttg gcccacttct actgtgtatt tatcttactt tttcttcatg catattcttt
44161 tctaactaca ggccattat ttgctaagct gaataagagc attttaaatt aaaataaatt
44221 cagttgtttt ctcggcatat acatttgcag cgattcacaa acttcaatct tcatctactg
```

FIGURE 1 (continued)
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44281  aggagaaaga gttctttatt cttataaact ataattataa gcattcaata tttcagagg
44341  aagaaaatgt atctgtttat actaagtatt taaaaatcac ctacggattt gctctaattg
44401  tcagtttctc caaaattatt attgtttctt aatctcttaa caagtaatta taaatagatg
44461  tgttgttatg aaaaataaga aagatattcg gtgtttcctg tatttcataa acaccacgtc
44521  attttcttta tcaaaatttc cattgaaaga ttgtaagagc attaggccac cttctgggct
44581  taagtgtgta tgagaagaag ccacaacttc ttttccctct gagtcacctc aggtcttact
44641  ttacaatgtt acaaatccac acgagattaa tattcaaatc cgtgaacata tctttgtttt
44701  catttgtggt aaaggatctt ttattgtaag tgctgcttaa tgctgaatag gcttgaaaaa
44761  gatgtatctt caagtacagg tgtaaacaac atgtgatttc attaagatag acgtagctat
44821  attgcaatga tggcagtttg gtcagtttca taggtcaaca aacatctgtc agggtaagac
44881  ctcatgctct gaatatgcag gcagtcttat aattctgact atacatatgt ttatttttg
44941  taacttaagc aaaatttttt ttagagccag gcactgtggc tcacgcctgt aatcccagca
45001  ctttgggagg ccgaggcagg tggatcacga ggttaggaga tcgagccatc ctggctaac
45061  atggtgaaac cccatctcta ctaaaaacac aaaaaattag ccgggcatgg tggcaggtgc
45121  ctgtagtccc agctactcgg gaggctgagg caggagaatg gcatgaaacc gggaggcaga
45181  ggttacagtg agctgagatt gcgccactgc actccagcct gggcaacaga gtgagactcc
45241  gtctcaaaaa ataaaaaata ataaaaataa ataaataaat aaaaattttt ttagaaacag
45301  ggtctcactc tattgcccag gatggagcag cagagtgaga ccctggagtg cagtgacaca
45361  atcatagctc actgcagcct caacctcctg gtctcaagca atcctcccac ctaagcctcc
45421  caagtagctg ggactacagg cgcatgccac catgccaggt gtttaactt ggcttataaa
45481  ctctatcaga tctgttatta cagagaactg aagtaatcca aaagaaaagt attcggagac
45541  tttgagtaga ttctcaaaac aacagacacc caaatgctga aacattgacg ccctcgctac
45601  agtcagtaca ggaaaatgtg aatattatcc tggatgccat catagtgata caagttgcaa
45661  aggtgagagc ttgtatttgt caaagtgtag aagtggttct tcttacatca taaaacatgg
45721  atgctaacat ctagatgact taccttaaaa tcccatttt ttctcttttg atcataataa
45781  tgcattttgt ggtacaaata agagaggcta ttttctttgc caaaatagct tgagagtgat
45841  cagagccgag atatggaaac tatggaatac ctcatatttc ttctcctgaa agctgattac
45901  ccagatatcc aaattcatta ttctgtagtt tattctcagt gtattttcct aagatttgga
45961  aattagacaa gttcatacat ggggcccaga gtttcaagca cttcctgtat taacagtaga
46021  ttacaaagat agcatgaaaa atcggaaaag aattgaagat gccaactaac gcacctaaaa
46081  atcaatttca tgaacttgtc atgttgaaaa gtcaaatagg aaaataattg tgtgtgatat
46141  cagtaccatc tttttccttt tttcttaaaa caaaaatttc ccttttattt aaagaaaaga
46201  gaaaaataag agaaaaataaa gtatatgaag aatcacactc agaaattgct tcttcctgtc
46261  gtgcctcagg gatgtgaagc aaaaaaataa caggcatatt gatcataaag ctgacaggtt
46321  attgctgact ctaagagatc tattgtccca tccccaacta gcagcaaaag ttctgatgac
46381  atgtgaattg atatgaaatc aggtttcata gtgatttcaa agaaggtttt cagtttagtt
46441  cagggctgaa ggaaatgtct gtttctttgg agaggaaaga tgatgtgaca tagtgattga
46501  gtcttgaacc agggggccaga gtacgtgggt tcttccctca atctcacctc ttgggttctt
46561  tgtgacttgc tatctctgat cttccattct ttccttctta aagaatagtg cgtgccatgc
46621  ctgcatcaaa agagtcttgc gaggaggatc cagtgaggaa atgtgtataa ttgcctaata
46681  atatataaac agtactgtgc aagtagaagg tgtcattaat aacatcagaa tgcctttgcg
46741  attacaaatg tgggtgacac tgtgtgcatg agtactgcag gatgtggcgt ccaatcacat
46801  ggtggccctc cccggtgact caagaaagga tgcacatctc agcactgaag gagacctgat
46861  ttttctaaag tgaagaagta aaaatgatgc cagagaccaa actgcagtat aacattattc
46921  atggggagt ctgtatcaca ggacatttaa agggagaaaa cttacgtata aaaaaagaaa
46981  atgtgctttc aactagaaca gcaagaaaaa tgattttttt taattccagt aaaaaatttaa
47041  gccaaaacga aacaagagaa acttcaggag tctaccaatc ctagttgtaa tcctttgaa
47101  aaacaggaaa acttgagaac aagagaacaa acaaggtaga aaaagttgt ttttactggt
47161  ctaacatcct ctgtagtatt aattagatac atgaaacacc cagaaggaga actaagtgag
47221  agaaagagaa ggaaaggcaa atttaaagga tgtgactcct gttctgtgga gcagactcgc
47281  tttagcatcc tcttctgttt attaaatatt gtgtgcaaat gtctggggtg ccagctacgt
47341  tatggagttc ttggagatat gttctacagt gatctttcag ataaaagccc ttctttttta
47401  gatgagaagt ttaactgagt taactaagtt ttaatcaatt aatttaatct tgtcctactt
47461  ggactagaat ttagatgatg tcctgatttc tcatctttt gcgaccttc atggtttttc
47521  acatttataa gataaagatca tttaattatg ggacagtgat ttcaactcat ttttggattc
47581  gtctagccat ctacactcaa aatcgtagtg tggcacatac ctctaatatt catatataag
47641  cccaaattaa ctatatcgta ataatttgt tatatccctt gagatacaat atacaaaagc
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FIGURE 1 (continued)

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47701 aagagataga atttatggtt gtatttgccc atgtgaagtt actgaagttt gaacaataaa
47761 tagctaacaa aaataaattt aaaagaattt cagataatta aactcaacat tattttaagg
47821 agctacagtg gcagggattc caggccaaat cacattgtaa agatagatag atagatagat
47881 agatagatag atagatagat agatagatag acagacagac agacagacag acagacagac
47941 agacagactg atttggggg aagtgggagc aatttgtcag aacgtaaaag agaactattt
48001 gaattctgtc aaatcatttt acctggggaa cacttagatg ttggaggatt accttttcct
48061 ttggcttcaa gagaaaatag gcagtgtttt cagcaaacat catgattttt gatctctcaa
48121 agccttgta ttgagaatac agatgatata tttgtctcta ttttgtactc ggatctggaa
48181 tttcctagaa tgttacctac aaaagattta gatataaata tcttgaagaa ctttcagcac
48241 aaatgtcaaa attttttctt tgtcacctgt ttaccaatta cagtatcatc acactaaaca
48301 cagactcaaa cttctcttca ttccactatt ccagaatgga acacaaaaat ggtatatttt
48361 gatctgtatt tattgccatt gattaatgtg gcattcgcaa acaatcccat ttgggcagac
48421 catgtttgca ttttaatttc attgcaatca acgtaatgaa gctattgatc gtttcttcca
48481 ttttcccttt catttgcctc ttaaatttga accgcagccc tttgtgcctc aatctgttgt
48541 cacagatgga atttcttaga atgcatttcc tgtttctctg aagcagttag aatcgaaaaa
48601 aatccacttca tatcatacat ttaaattcca ccaataaaat caaaactttt atgagtcatt
48661 atgcaattgt cccatagagt aaaaggttca gctgaaaagt gatatgtatt attatttcat
48721 tgcaacttta taaaactttc ctaggagaag tcattattta tttaaaaata aaaagcagtg
48781 gaagtctcta aaatattttt tacacatttc aggctaaggt ttatattca tacatgtgta
48841 cacacacaca atgaatattt agaggtaaaa tttctgaaag aaacattttt atattaaaaa
48901 ggaagggact tctgattatg aacatgacta aataacaggt tttgaatgta gctactgaaa
48961 agtaatgaac tctcaaactg gacaaaaatg atgaagtaac tgtttttcaga cattggacaa
49021 cttaccacaa agggctgttg tccattcaag atggaatcac aggcaggcag acacaccttg
49081 ccttttagctt tctgcctggg gcactttcca cactgtggtg taaggcgttc acccagattg
49141 acagcagtgg tcttgctggg tggagggaac agtagagttc agggccactg acgcagctat
49201 aattttttgaa gaggcatatc cagagaggaa aaagctgcac ggaagcgtag ctctagaaat
49261 ctgcatatag gttctttttga gtcattggca tgcacatgtg aaactccatg atttctggca
49321 gagaagggct ataagaggct ctgagttgaa ctgggacact gcaaccaa agtggtccca cagtgctgag
49381 gggcactggc gttctgacct ggcagagtgg agtcatttca cgtaatacct caggcattct
49441 gttttgaaat cacagaaaag ccacacctta aaagtaggac tgacaaccaa attaaaaagt
49501 gagccaaaga cttgaattag agagttcatt ttaaaaaggt atacatatat gaatggttaa
49561 taagcacatg aaaatttgct caataccagt agttattaga gaatgtgta ttgaaacacc
49621 agtggcctat gtaccactat acacccattg gagtggctgt aataagaaac aagaatacca
49681 agtgttggca aggatgtgga gaaatgggaa ccatcatgca ttctgatgga aatgaacatg
49741 gtatatccac tttgaaaaac attttgctgg tttattgaaa tgttatacaa aaatttatca
49801 ttcaacctag caaattcact cctagaaatc taatcaagag aattaaaaac atatctacac
49861 agagatatgt acatgaatgt tcaccacagc attatttata atagccaaaa gcaagtaaaa
49921 atctaaatgt tcatcaaacta gtgatcagat aaacagaatg tgtgtatcca tataatgaaa
49981 ttgtaaactc agttatttat aatagccaaa agcaagtaaa aatctaaatt ttcatcaact
50041 agtgatcaga taaacaaaat gtgtgtatcc atacaatgaa attgtatatt cagcaagtaa
50101 gtagaatgat tactggcata tgtattaata ttacatatat acatattaat aatacatata
50161 tacatataat taataataaa atgtattaaa ctagaaaaaa tgcactagtga aagaagccag
50221 acacaaagaa ctattaaata tatatgcaat gtctagaaaa gacacaactta tgaagtcaga
50281 aggcagatca gtgggttgtct tgggctgaag ataagaattg aaattgactg gaaacagtgt
50341 gaaggaactt tctgggatga tggaaatgtt cttacacagg attgtggtga tggtgacaca
50401 attctataat ttcactaaaa ccatcaaatt gttaaaaaaa aaaaaaaggc gtatactaac
50461 catacggtaa atgctaccta ataagccta aagtcagttg attcaccagt aaattaactg
50521 cctgccagaa taaaactcaa cactaaagaa aggcaacaaa atccaaactc tcagcaacat
50581 agcagctgca atatcccata tgcgatgaaa gttactagac atgcaaagaa gcaagaaaat
50641 gtgaccaaat acccaggaga aaataagttg aaataacag acctgagatg acccagatga
50701 tgaaatttatg aaatagaaat tttccaagag tattataaat ttgtttcagg attaaaagaa
50761 gagcatgagc atttttttttt tttagcgaaa agatgaattt cagcagagaa atcaaaacta
50821 tataaattaa atacatggaa aatctggaac taaaaaagtc agaaatgaaa aattcactgg
50881 atgggctgaa tagcagattg aaacatgcag aaggaagtat cagaaaactt aaatatagag
50941 caagagaaaa tctaaattta aatacagaga agagagattt cttaaaaatg aagaatttca
51001 gtggttggtt gaaatattat caagtggtaa tcgggtcat agaaggagag cagagttcag
51061 agcagaggac acatttgcaa aaataatggc tgaacatttt ccaaaggtaa aaattactgc
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FIGURE 1 (continued)

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51121 tatagtttgg atgtttgtcc cactcaaacc tcatgttgaa atttgattcc aatactacag
51181 gtgggggtct aatgggaggt gtttgggtca tgggggcaaa cctctcatga atggattaat
51241 gccctccctg tggggtggtg agtgagttct ccctctgtta gttgcacagg aactgattgt
51301 taaagagagc ctggcacctc acccatccct tgcgtcctct cttgccatgt tatctctgca
51361 cataccagct cccctttgcc ttccgtccac cattactgga agcagcttgt ggccccttgct
51421 ggatatagat ccccaatcct gaactttttcc agctatcaga atcatgagcc aaatataatct
51481 ttttttttttt ttttttttaaa cggagtctca ctgtgttgcc caggctggag tgcagtggca
51541 tgatcctggc tcactgcaac ctctgactcc aggattcaag tgtttctcat gcttcagcct
51601 cctgagtagc tgggattaca ggtgtgtcacc accaggcctt gctaatttttt ttgtagagat
51661 gaggtttcac catattggcc aggctggtct tgaacccctg acatcaagtg atctgcctgc
51721 cttggcttcc caaagtgttg ggattacagg tgtgagccac catgcctggc cataaatctt
51781 tttcctttat aaataaccct gtcttaggta ttcctttaca gcagcacaaa cagactaaga
51841 aaatgactac taacatctca ttaaaagcaa tacaagacag cctatcaggg actagcatct
51901 ttaaagagtt gagttatcag cctaaaatct tacatctaga aaattatcct ttaaaaataa
51961 agtctgagat attttcagtt aataaaagtt aagtatcatct gtcacttatg gataacaata
52021 taaatgtcat aaataagata ttagttaatc aaaccaaagt gcatctttaca aaatgacaa
52081 gccacaacca aatgggggttc ataccagtga tgcaatgata tctccatatt agacaatctg
52141 ttgttttacc atattaatgt tacaaaggtg aaaattcatc atatcatctt catggaaact
52201 atagagattt tagatatgtt ccttgagctt tcaaaaatat taacaaatca tgaatagatc
52261 gatactttct taacaaacac acacaagttt ctaggaccac caccatgtat aagacagcca
52321 ggggaaaaaa agagaaatga aaagtaggaa aggagaagc aactatattg atattgtag
52381 attctgtgat tgtacacatg aaaaacataa aaacaagtga atttgataag atacgaagct
52441 aatatcaaaa ttcagttaat tacttatatc aaaatcagaa cttaaaatga caccacttat
52501 aatagctata agattacaag aaataaatat aagaaaata taagatctat ataaggtttt
52561 caaatgctaa tgagtaacat aaaaatatta tccaaatcaga atggtatgcc ttattcctga
52621 gctgatagat tcaatattgt aaagttcaat tttcttaaaa ttaaatcaca agtttaatgt
52681 gatctcaata aaaataccag agaaaaaat tgcttttgga attaagtgaa ctaattctaa
52741 gttcagtgga aaaataaata agcaagaaaa aacaaataaa ttctgaagaa agattaataa
52801 actgttcctg tccgtactcc aaatattata ggaaataaaa cagtttatta ttgacaaata
52861 tatatcccta taaatgggca caactacaga gtataaaaat atgttgaatg
52921 tatacttttgt gtataataat atttgaattt cacatcacta gagaaatgat gattcattta
52981 gtagataacg gtggagtgtt ttaacagcca atcaagagaa aaattcattt gaaccccacc
53041 ttactcctttt caccaaaata aatttcagat tgattaaaata tttaatattt tttaaatgtt
53101 taataaatca tgaaaataccc agtaaaaaga ctggataatt attttttaata atatgagagt
53161 taaaaaaaca ctttctaaac actacacaaa attcagcaac tatagaaaaa gactaataaa
53221 tttgatgaca tagaaatttt ttaaaaattg catggataaa aaatacaaca tgcaaaatga
53281 gttataaatg gataaaaatac ctacatattg ttagaaaata ttagaaaagg ccaataattc
53341 aaaggaaaaa tgaacaaaaa catgaaatag ttcataggaa gagacatgtg aatgaatttg
53401 gcatctttga aaaatgttct acctcattca taagtgaaat gtcaactgga atttctgtac
53461 agtatccatt ttccacgaac gattaacaac aacaaaaatg tttgtgcact atttgaagga
53521 ctatattgag taataattaa tttcatgtac tattaatgac agtaaaatca ttagtctgac
53581 caatttggag aacaatttgg cactttctat caaacatgaa aaatgcatat ttctgggaat
53641 ttattccatt tctaggaatt tattcttatt gacatattca catgtgggaa aaatgtgaac
53701 aatgatatatt atgtcattat gtgtaacagc aaaagttgga agcaagctaa atggccaaat
53761 aaggaagaga ttcaataaac tgtaagatat gccttcaatg gaatactatg gagtcactga
53821 aagaaaaaat agtaaggcta cttacattgt attgttgtgt tgtgttgtgt tgtattgata
53881 tgttgctgaa atatactaag taaaaaggaa agcaaattgt agaacaatgt gtatattatg
53941 ctacctttttc agaaaaacta taaatatgta tgcacacatc tctactctta tcctttatgc
54001 agatttatgc tgccaacatt tgtaccttct ggatacagga cttgggagta gtaggaacgg
54061 gaagaaatgg gacaggctga atcttcactc tatttataaa acctttagtt ccttttgaat
54121 tatttaccgt tcatatgtat catttttaaa aatagaaaat aaaaatgttc aaagttgaat
54181 aagcgggtag aaacattttca gtggcttttcc gttgaatcca gaacaaaagt ttcttttccag
54241 aggttcaggc cctccttgaa ctggctcatt cccgtttctt aaatcccacc ttgttcctcc
54301 cacctcctct cactccgcag tttccaactc tattgacctt ctctcagttc cttgcacaag
54361 tcagtttttgc cgctttggag cctgtgcact gcttgcttttc tgcctgcaac tcttttgtcc
54421 caactctgca ttatcgggct ccctctcttt cttattcttt tggctttggt ggtcacccat
54481 tcagagagac cctccttagg catccactct aacacagagc ccgttttcct tagtctttttc
```

FIGURE 1 (continued)

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54541 ttgtggcacc taattccttc ctttcatact caatttcttt atctgttggc tcttgtagtg
54601 tttttccaca cccctcccca ggatggtaaa ctccttgagt taccatttct attttattct
54661 cttgtcgaca cctgtaagag tacccgacac attgcaactg ggttggaatg ctaacatctc
54721 ttgaataaat taattcaccc atttaagacc aaaagtttgt attacaagtt agcaggaata
54781 aatgtcttac tgattggtat atgggtgtaa aaatatggcc ctgattttca gtatttaaaa
54841 ctctcaagat gccaaatatt ttctactgct ttctaagctg aacttccagg cacagctggc
54901 atatgcatat ttcttgacaa tctccaagtt ttgataacca aataagaaaa aaaaacagca
54961 cagaaaaata taattttggc tgttactaaa tgggctaata ataccagtaa tagtatttta
55021 aaaattctaa aaaatgtcta attctcacaa tagcattcta acagtaaact aagaggtaag
55081 ctaatatatt caagatacag agcaaccaca cttgtttagg agcactgtta ctttgtctac
55141 attgatttgt taaaacattg tccgttgtca accaatctaa aaaggacaca ataggctagg
55201 cacagtggct cacacctcta atcccagcac tttgggaggc cgagtgggga ggatggcttg
55261 agcccaggag ttcaagatca gcctgggcaa cacggggaga ccccaactct acaaaaactt
55321 tttaaagaaa ttagccaggt gtcgtggtgt gtgcctgtag tcccaactac tcaggaggct
55381 gaggtgggag gattgcttga gcccagaagt tcaaggctgc agcaagcctg attgtgccac
55441 tgcactccag cctaggcagc agagtgagac tctgtctaaa aaaataaaa ataaaaataa
55501 aatgaatac aattttaaa ataaataaa agaacataat aaaatatgtc cagaaatcaa
55561 tagtcaatat cgtttgatta attttgccaa aatccaatac acggtgtagt tacagagctg
55621 aactttaata atagaaccaa tgtaacatgg taatgctttt catattttaa actacttcc
55681 taaatgttat ctcatttgat gctcactacg aaaacacaat agagatcatt ttggcctgtg
55741 cttttgtaaa attatagaat attagacctg aaaaatatat aatgtcattt acttctattc
55801 ttcattttat agatgaggga actgaggcca gaaaacatga taaagtatgt tccattctca
55861 cagctaatta ggggctagaa ccaggatctc agtcctctct tgggcgacta gacaattgct
55921 aactatgctt ctgcaacacc ttcatatcat atgactgact tcttaagtgt acaaattaat
55981 tttaggattt aaatcaatta caatatttct ttttaaaaca tggaatatgg ttcatccaaa
56041 agataatcta catcccacta cccatataga accattattt ttattttgg atattttctt
56101 cagtatttt ctttgatttg tatgtttcat agaaatgtgt gtgtgtgtgt gtaatttttt
56161 cacctctctt aagtacatat ttttaaattt ttaaatggat acacaatatt tgtacatatt
56221 tatgcagtac atgtgatatt tcattacatg catagaatgt gtaatgatca agttagggta
56281 tttccatcac ctcaagcatt tataattttt ttgtattggg aactgatatg gtttggctct
56341 gtgtcctcac ccaaatctca tgttgaattg taattcccag tgttcgcggga gggactcggt
56401 gggaggtgat tggatcgtgg gggcagattt ccccctttgct gttgtcgtga tagggagtga
56461 gttctcatga gatctgatgg tttaaaagtg tgtggcactt ccctcttttgc tctctcttct
56521 gccgccatgt gaagacgcgc ttgcttcccc tttgcccttc ctctatgatt gtaagtttcc
56581 tgaggcctcc cagccatgct tccagtacaa tccgtggaac catgagtaaa ttaaatctct
56641 tttcttcata aattactcag tctcaggtag ttctttatag caagatggga ttggagtaac
56701 acaggaacat tttaagttct attttgaaac atactttttt tttttttaca atacagctaa
56761 atgttttgta aaacatttaa aaaatgttag tcccacacag tcatgtaact tcaaacagta
56821 agctcatcac ctaatattat tgcatctgcc acttagaagc tgtgtgacta gaagctccct
56881 gggcctcagt tttctcatct gcaaaatagg gataataata gtggtaattt tatagagctg
56941 ttataaggct tactcagcct cccaaagtgt tgggattata ggcgtgagcc acagcagctg
57001 gcctatgtaa tttaattata tgcttttttgc ttaacatatt attcttatat ttttattatt
57061 cctgaaagtt tttcattatt ataatttcaa tacttagtca atatgctgcc taatgaacat
57121 agtgtaattt acttatccta tttcccattt tggacagtga ggttgttttc acttttttgct
57181 ctcataaata attctgaaga aagcattcca tatgaatatt attgtcaata tcactgataa
57241 tttctctagg ataaattcca tgaaggatga ttacagaatc aatgcgataa atatttttaa
57301 cactactgac tcatattgtc aaaatgtttt cttaaaatgt tgtgacaata tcattaaccg
57361 tgtgcagaaa aacagtttt aaggtcttat cctcattaga tgtagtcatt taaaagtaaa
57421 ttgctaaatt aataggctaa aatggctccc aattgttctt tcattttgca tttattttgct
57481 tattaatgag atcaaacatc ttgcaatttg tttgtttgtg gaatatcgtt taaagctcaa
57541 ttaatccgct atgtttttta atgacaagct aagacactac agatgaaaag caatggaaag
57601 cagagatgtt tagtgacccc ctactacggt gctaagtatt tcaaatatat tgttaggtgc
57661 attaatatgc aagttatgag aaagagacga agcaaaagtc acagacttga gtgcataata
57721 cgacaaaatat tacttcaaac tggctcagtt ttagaactta agggatttta attctttttc
57781 atagttttta ctaaccaaaa gctttaatga gaaacaatta attcaatatt aaaaggaaat
57841 aataggtagc atgaatagct tttgcatgat gggtctagag aagtgttaag taggtacatg
57901 tggcaattga gtccttgaaa tggggctggt ctgaattgag atgtctcaaaa atacatatgt
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FIGURE 1 (continued)

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57961 gattttgagg actcagaaca aaaagaagag aatgcaaagt atatccattaa tgatgtttat
58021 tgattatatg ttgaaatgta aatattttaa aatagtggat tgaattaaac ctattaaaat
58081 taatgttacc tatttcattt acttgtataa tgtgacttct agaaaattta taattggata
58141 tgtggctacc attggccagc acaggtctag ggaattatat gatatcagat tttaggaagg
58201 aagttataaa attttagttc ttcaggaaga gatctaaagg agagtacaga gagagagaga
58261 gagagagaga atctaccaca taactaaatt aagtaaaggg agtgctacag cactgaccat
58321 tatgaccaac caggaggtct ctgataaact cagatattta ttcataaatt cagattacaa
58381 agagcctacc acaaaggaca aacaggccgg acgcggtggc tcacagctgt aatcccagca
58441 ctttgggagg ccgaggtggg tgggtcactt tgaggtcagg agtttgagac cagcctggcc
58501 aacatgctga aaccctgtct ctactaaaaa tacaaaaatt aaccaggcat gatggcgggt
58561 gcctgtaatc ccagctactt gggaggctga ggtgggagaa tcacttgaac ctgggaggtg
58621 gaggttgcag tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact
58681 gtgtctcaaa aacaaacaaa caacaaaaaa cataagtagc tgttgtcagg actcttacaa
58741 cagaatgagg tagaggaagc caaagggctt tgaaagctac attcagagca caaagaagag
58801 ccaaaaagga cagacactgc caggggaagc tgggaaaata ttaatataaa gaaaatcaaa
58861 ttatgcaatt cttattttgt ctttgtcctc tataaagagg aatgatcttc aaactagaaa
58921 agagagatga aatttcctca caagaaaaac tgaattcaag atagaaaagg atacttaaga
58981 gaaatatcaag ttgttagaaa tacgttttca tctctgactc cagataaatt atatttcttg
59041 gtcatgaaat cattgatagg ctttggcact tgactggttc caaagttgga cgaatctagc
59101 tactagacga gttccctgag agcatgggtc tgatctcttt cattcattgc tgtattccag
59161 catctagaac atttcctggt atagagtaag tgctcaataa atatatgcag ataaatacat
59221 gaacagagaa cacaagagtg gccagattaa aacaggggaaa tgttctgatt tcaaaatggg
59281 gaaaataagg attctgactt gtgtagatac ccaggcaaca tgcaggcaag atgtcagcgg
59341 ttaaaaaaat tttagaatgg attaattaaa aaaacaatct tccaatatgc caggattcct
59401 ctacaattt acatctagtt taacccacac aataacacaa ttaactggtc ctatacacat
59461 tttacagata aaactgaggc ctaagaggaa tttaagtaac ttgcctggga gtgatatagc
59521 ttataagcag aaaagctggc atacagaatt taactactgg ttgtcctcag aaaggaaatc
59581 atggtgactc tgaaccaacc tgtgtacgat aatcatgagt atgctaaact ctcctagttt
59641 cctttttaaa tcaaattgct aaattggttg atgccataga taactggttt atgtacttaa
59701 aataaaactc attgagatct ttacctgtat ctgaatatat aaagaagttt ctagtagaac
59761 tactctgctg gataagacag aagttcagag atctaccaga ataactatcc gttcaccttt
59821 gcagaacttc ataaagccca ctaccataaa cacagggtaa ggggagttca gccaggcatt
59881 tgataaggtc ttttgtaata atcttgcaac taaggctaga tgacaatcag accaattagt
59941 agtatgtgga accactggtc cctattgatg tcaaactaaa aggaccgtcc agtcttgtgg
60001 caagggccc tgtccttgac ctttttgtat tgaaatatgt gaccagtgac ttggagaaaa
60061 taataatatt cccatgttta gctgatcaca caattttata ccagttccta cacttagacg
60121 gttgtataca tcctcttcta ctttgtggtt gagaagcttc ctctagtaga agtgatgtca
60181 atggaattcc aataagaggt atgttctatt tagacattta atccatgaat ttgtatatat
60241 acattataag tcatcttttgg cagttcagcc ctcagccaac agaatctcag ttctctccatt
60301 tctatcatta ctccagaagg gttcttgggt gtggactagg cattctcgtt ggcatgcatt
60361 caagttctcc tctgtagcca ctgatcctgt tgcctctatc ccacagctct ggaatatctc
60421 caaataacta ctctttttatt ctccatgcaa atgaaaaatt ccattagggt gatgtgaggt
60481 tagttgttga cataacttcc tgcttcaaaa atccttcctt ccttcccatc atcatttgcg
60541 accccagtta cagctctgaa ttgtgatttc catttgtgac atattgcccc cgaagagaca
60601 gaagaggaac cttcatccgc catccccatg ttagaatcct cttcctaggc tctcagtgaa
60661 gttgcctcac tcgatctcaa gctgcccggc atgtcacatt ccatttattt catttaacta
60721 agatttattt agctttatgc tatgctagga actgacaaga aaatcattat tacaattaaa
60781 tgagatttat tgagtactta ctttatgcca gaaactgagc taagaatgag gaataaaaaa
60841 tgtataaaga cacattcctt gctctcaaaa aatgtgaagt ttagaaagat ggaggtagta
60901 agtaaatcaa cttcaattca gggtaataga tgctagtaga ggcaccatgt gtgatgctgt
60961 gagacctcaa agaaagagtc tctaaatcat cctgaagagg aagtcacatg aggagagtct
61021 ttaagaataa gtatgtctgg ccttgtcaat taaaagagag ttgggagttc caggcagagt
61081 gtcagcatga atgaaggcaa gaacgactac tgggatgaag tgtggggagc tgagttcatt
61141 ttgacatggg aaaagtgtag aggctgggtg cagcggctca tacctgtaat cccagcactt
61201 tgggaggctg aggcaggcag atcacctgag gtcaggagtt tgagaccagc ctgctaaca
61261 tggcgaaacc ccgtctctac taaaaactac aaaaattagc caggtgtggt ggcatgtgcc
61321 tgtaatccca gctactcggg aggctgagac aggagaatca cttgaacctg ggaggttgca
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FIGURE 1 (continued)

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61381 gtgagccgag gtcgagccac tgcactccag cctggacaac agagtgagag actgtctcaa
61441 aaaaaaaaaa aaaaagtaa agaaaagaaa aagaaaaccg tagagcagaa gggagatggc
61501 aggaaacaag gtgggaaggg taggttagat ttgtatcata gaatatttta gactgtctta
61561 tgaattatgt gggagccaag gaagggtttt aagctgaggt atggcaggat ctgatttgca
61621 tttcagaggg atcacttgtg gcagccataa tgaattaaga tggtagagaa cagacaagag
61681 gaaggacgga ctgttaaagt gatgggtagt catagaaaca aaaagtggtg agggtctgag
61741 ctggcccctg aaaacagatg ggtttgaaag ctatttagga ggtaaaatgg aaagaatgtc
61801 atagaaattt agatttgggg gtgaggaaga gggaggaggt ataagggaac ctgggtttct
61861 ggcttggacc agttggctgg acgtgggtgt cacatgcagg ctactgccta aaagcatagg
61921 tgactaggag aatgctattg gcctcaatgt tggaaatgtt gagtttgaga tgctagtgaa
61981 gcacacagag gatgcatatt agtcagtggc ctgaacttac aactccagaa gagcaggctg
62041 gactagagac catagtctct atatggtcgt tacatatgga cgtctttata tggatatcat
62101 cagtatatca tggctgaaaa ccagggtctt gatgaagtca cccagggaga tggtataaga
62161 tgaacagcat agagaactaa gaataaaacc atagaaaaaa gttcattgtt ggtctttgtt
62221 gtcttatttg gttttgttaa aatggggaat cttgcagatc ttttaaatgc tgacagaaaa
62281 gttaaaggag aaaatttgaa gatgcaaaga gaacatataa gtaataattt tcctgggagc
62341 agaaggtatt tatttattca ttcattcatt caataagtac tgagtgcctc tagcaggctg
62401 ggaataaaag gcccttccc tcatgcagct tacattgtag tggtaaggag agcccatag
62461 gaaataaata aatgatgggg tgtgttagaa ggtgacaggt gctacagggg aaaacaaggc
62521 tgcataataa ggatgagagt gctggtggag agcacagtac atgtgagatt taaatagtga
62581 ttaaggaaga atttcctgag gaggcaacaa cagttcaaag gcaatgaaag agagaaccat
62641 gcagatctcc ggggaaagaa cgcttctggg gcaatctgct ttattcagtg tctactgatt
62701 aaatgttaat ctcatctaaa aaaaatacct tcacggaagt atctagaata ctgtttgacc
62761 aaatatctgg gcctagttga caaataaaat taaccatcac agaggccaac gacagacgca
62821 agaagaccaa ttaagaagct ctcgtgttaa cacagtggag aggtgttggt ggcttgagcc
62881 aggatgtcac aatggaggca gtgagaaatg gtcaaagcct ggatgtcttt gcaggcagca
62941 gtcactgtgc caggagtcca aagatgacaa gaaatgattc ctgtggtcaa ggtccttaca
63001 gtctgtaaca gttattaaaa ccataattgc ttatttgttc atggcatctt cattaccttg
63061 attatacctt cctggttcaa atcatattta acatctattc caacagaatg gcattggaac
63121 ctaccagaag acaggacacc agtcactaca caggactgat gcatacttat tcagtctcag
63181 gtatgtcttt atagcaatgt gagaacggac taatccctgc cttttcattg taatgactgt
63241 caatcctttt tttttttttt ttttgagatg ttgttttgct cttgctgccc aggctggagg
63301 acaatggcgt gatctcggct taccgcaacc tccacctccc aggttcaggt gattctcctg
63361 cctcagcctc cggagtagct gggattacag gtgcccacca ccatcgcccgg ctaatttgt
63421 atttttagta gagatgggtt ttctccatgt tggccgggcc agtctcaaac tcctgacctc
63481 aggtgatctg cccacctcgg cctcctaaag tctgggatta caggcataag ccactgtcaa
63541 tcaattttta aaaacaaaca ttttcttctc tgtacctagt atgagacaat ttgagtgtac
63601 tatgtcaggt atttgagtgg aatatataaa atctatatgt tgtacaagtg gaaaacataa
63661 aagctatatg ttgtgcacat ccagcccttc tcgtagaatg tcatgatttc agtacag agcctaacct
63721 ttgcttacct aaatcagggt tgtgctggtc tcatcaccat tcccaggaag ctgggtgctg
63781 ccctgtctgt ggtggggcac agaaacccat ttaccttcag ttatcagata gtagagaaga
63841 tggaccaagt tggacttggg aatccccatt ctgattttga agtctaggct tgagatgggg
63901 actaagagat gagaaatgtt gtaaagatgg agaccaagac tgctggagaa ttgagtcaaa
63961 ctgagatag aggcaggact tgactccaga ggctgggctc agacaccgga ccagattgag
64021 gactagcaaa tacagggcca ggggcagaag cagctttcta tcagacagcc caggagtgtg
64081 ccatgtcaat ttactattgc catggcaaca cctgggagtt acttccccttt tccatggcaa
64141 gactccaaag ttactacccc ttccctagaa atttctgcat aaactgcccc ttaatctgta
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64261 tatggggtag ccctgctctg caggcgcagt tatggagctg taacactgct gcttcaataa
64321 agctgtttc ttctaccctcc agcttgcct tgaattcttt cctgggcaaa gctaagtacc
64381 cttgtggcct aagctccact ttggggcttg cctgccctgc atcaaaacca tgctaatgtg
64441 gggcaggctt tgaaaaagcc tagagcctgg agtctagaag gccattattg gaggagtc
64501 tcttttatgc atcctgcaag cacttccact gtgcattcca gattcattta aagggaccca
64561 gagatatgct tcttagactt tccaccaaag catctctcaa gccaaaggag ataaacaggt
64621 agcttcaaac agtctgcctc atgcctgaga tatatttgaa atctttttgt tttatttaa
64681 aaattacacg acttttgcat tctactttgt aatatcacca ttgtttttaat aacccttccc
64741 cccaaattct tgacataaaa tgagcactgc agaaaaatgt ttcatattca tttttggcct
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FIGURE 1 (continued)

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64801 tatgtaatcc ttggcacaca acttgaccta agtcatgcct agcccagact gagaagcatg
64861 aacctacaga tgaatactga accattgatt gaatgtgtca tcattctttt gagacctggt
64921 agtttacaag cctagagcag agaagggaag ctagtaggtg gccaataaat catggttgaa
64981 tgatataggt cttctcatgt tctattctta atctaggcat tttcaaacac atgcttttct
65041 ttctctaaaa tcttatttct ctttatttaa aatcaaacaa ggctggttgc aatggctcat
65101 gcctataatc tcagcacttt ggggaggctga ggtgggcgaa tcgtttgagc ccaggagttt
65161 gagacgagcc tgggcaacat ggggaaaccc cgtttctata aaaaatgcaa aaattagcta
65221 gatgtggtgg cacacaactg tagtcccagc tacttgggag gctgaggtga gaggatcact
65281 tgagcctggg aggtggagc tgcagtgatc catcattgtg ccactgcact ccagcctgga
65341 tgacaaaggg agacccatct aaaacaaaca aacaaacaaa caaacaaaac aaaacaaaac
65401 attttttga acatgtataa ggcacggtct gtagtattgg agaatcccag gatgaattaa
65461 tttggattcc atacttacaa tttcggcttt caccaatgac ttgagaagct gctaataggc
65521 ttctctgata acctatttta tcttcttctc ttttgatcct aattctgttc tatggattgt
65581 atactctcag atttattttc atcgtatttt gttttcatta agggatgctt gcaaaaagtt
65641 tagttgggga gtgaaaaaat aactcttatg tatatccaat attaaaagtt tctttttgaaa
65701 aagttttttt ctagtaggtc ctttctaaca tgtctttttga aaacagtata ggttggtttt
65761 atggctatgt atgggatct catgagaatg ccattaaaat aagctttttgc tgagttggag
65821 gataaaagga aatgggaaaa aatccaaatg catcccatta ttacaagaat ggttccctct
65881 acatttaaga aattatttt ctgcagttca gtgatttgga aaaacatgta ttttctagtt
65941 tcctaagaat aaaatgaatt aaaacgactt taaatactac ataggacaaa ttttaatttt
66001 ctactgcatt ctatcataga ctcttttctt ctatatttta ttttattat atatttttg
66061 agacagggtc tcattctgtt gccaggctgg agtgcggtgg tgcgatcacg gctcactgca
66121 gccttgacct cccggggctc aggtgatcct cctaccttag cctcccaagt agctgggact
66181 ataggctaat ttttttttc ttttggtaga gatgggggttt caccttgttg cttaggctgt
66241 tctcaaactc ctgggctcaa gcgatcctcc tgtcttggcc tctcaaagtg ctaaaattat
66301 aggcgggagc cactgcgcca gacccatatt ttgttatttt gagagattat tctacttcat
66361 aatttggaat gcatttctga ttttcttgtt ggaaatggaa aaatgactat tttaggttga
66421 atccattctt aattatcccc tgatacttcg tttaggacat ttctggatta cttttctct
66481 tcctgttcct tttctctttt tttccagtcc tttcatgaca gataaatgtt ggttggataa
66541 accaagagt tggtacatat cccaagaatg caaattcatt ttgatattaa atttaaaaac
66601 atattccaag gaaggtaaat tcaacccacc caccccctac ctcaaacact atgggtgctg
66661 gttcccattc tctctctctct tgacccatcc tctgtagcat gagcattagc cacgtgcaga
66721 aagagttaca gtcactagaa agctacctag aaatcagaat tccctcttct ttcaattgtt
66781 tttgaaagtt aagtcatcat agggcacacc ttctgaaatc tctgaacctg atataatgta
66841 aacacagaat gtgcatttgt gaactgtgcc ccaaaggagt ggctttctag attccaaaaa
66901 aggacaaaca ttttcagatg ttgaatgcac agtgatgtca gacatcatta gtgacagctc
66961 atttctgcat tttgtggttg gactctaaac tatgttatcc gacaagaagt gtctccatct
67021 tgccctggat ttggtgggag aaggatctga cacagggagc tttgccctg aaaacagcac
67081 tgtggcagct ggaaatgacc ttatatggta gcttcgcttt acactccctg tcccagaaag
67141 atccgtatgg aatgtggtga cttttgatgc tgataaggac attccacagg agaatgctgg
67201 ggtcgggtag acgaaggatc cctgtgaacg gttaccatt aacactggct ctggtttcac
67261 accagtgaag agtggcagtc ggcatagttt tcattagtca gacattataa cctgagtttg
67321 gcctatttt ctttgaaaca tttggaattg tcaagccaaa atgcatttcc tatggagtga
67381 gtgagtttgc ctctgccagc ctttccatgt gatagtttat tattatagag gtgacatggg
67441 cacccagagt ccctggcaag ctattgtttt tctttgctaa gaacagcagg aagagacaaa
67501 aaaaagtcct tcagaaaata atttatctag actttttgcaa ggcaatgaga aaagaattg
67561 ccattaggct gagcaatcta ccctgtatca ctgaggatag aaaatgtctc agaaggtcac
67621 tcatgtctaa gaagtttcac gtggatcttg gtacaattgt ggcttaaaat gtgaagttca
67681 ggccaggtgc agtggctcac gtctgtaatc ccagcacttt ggggggccaa ggcaagtgga
67741 tcacctgagg tcaggagttg gagaccagcc tgaccaacat ggagaaaccc cgtctctact
67801 taaaatacaa aaattagctg ggtgtggtgg caggcatctg taatcccagc tacttgggag
67861 gctgaggcag gagaatcact tgaacctggg aggcggaggt tgcagtgagc tgagatgaac
67921 ccactgcact ccagcctggg caacagagtg aaactccatc tgaaaaaaaa aaagaaaaag
67981 tgaagttgtg aagttcaggg gttcaagaaa aatccctcc cctcataagt gaggaatgaa
68041 gaatggaagc actctgagga cacttccatg cagacagtca gatggacaca cccagtagag
68101 tggctttgta atattgcact gtctcatcata ggacacttcc cagctaccag acacagagtt
68161 tctcttgggc tcagcccagt ttttcatctt tgtgttgcca gcaccacggc accctgcaca
```

FIGURE 1 (continued)

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68221 gcacatagca ggtgttcaag cttcctccct tcccgtcta tcctccctt tctccctccc
68281 tttcccccgc ttccctcaac cctcatctac ggagtgcttc ttatatccca ggcactgtgc
68341 ccaagcctgg tgcatggtga atttcagcaa catgcatctc ctaaatatta agaaaaaaaa
68401 tcccccgact aagaacctt ggttttaac ctcattctgt gctattttca gtaacttctg
68461 gtttccacac taaaaaaatt tgcagtcatt atttattgag catgatctac agaccaggcc
68521 tagtaatagt cacctaattc attaattcac ttacccattc acaactattt attgagtacc
68581 tattgcatgt taagtgctgg aattacagca gtgaataaac acacaaagac tcctgaagct
68641 catgagtgtc caattacttg cattacctgt attaaaactt atattattca tgatcctcat
68701 gaagcttccg gtggggtgaa gggagagaag caatatgtaa gcaaacaata aacatgtatg
68761 acatcaggag gtaatcaata acataaaaat gtaatgacac gggggcactg gagagaacta
68821 cagcaggtcc tatgaaagct gggggaaaag catgatagcc agagggaaca accggtgcaa
68881 aggcactggg gcagagagcg cctgtgtgtt cgggattgtg ttttggctgg agcagaggtg
68941 ttgaggggga agtgatcaga gatgagatca cacagctggc aggggtgatg tctcctcacg
69001 tttcataagc cactctaagg acctggctct ccctctgagt caaatgggaa gccagtaaaa
69061 aaatttgaac aaagcggctg ggcgcggtgg ctcatgcctg taatcccagc actttgggag
69121 gccaaggcgg gtggatcttg aggtcgggat atcgagacca tcctggctaa cacggtgaaa
69181 cccgtctct actaaaaata caaaaaatta gccaggcttg gtggcaggcg cctgtagtcc
69241 cagctacttg ggaggctgaa gcaggagaac ggcgtgaacc cgggaggcag agcttgcagt
69301 gagccgagat tgcgccactg cactccagcc tgggtgacag agcaagactc catctcaaaa
69361 aaaaaaaaaa tttgaacaaa gctacgtggg gcatgatctca ctgcacggta cagtggttaa
69421 gtcctcgggt cttgggcaag gctactattt tggaattatg cctctgtttc ttgctagttg
69481 tgtgactgag gttaagttac tcaacttctg tgcaccttct gtgtgacaac cataccatcc
69541 ccttgagtcg ttataagggt tatataaatt aatatttgta aagtacatat ttgttaagtg
69601 tacaaaatga atggatttt aaaaatcact taaaatgtac tagataatta tgaactgctt
69661 ttggacaatt aatcaagtga cttccctaag ggcacagatc atagatgaac aggtcaggat
69721 ccacacccag gtctatgtga ccctgaaacc catatttta gcatacaggc tggcacctgc
69781 ctcttttcctc tgcaatctca gctgctggag ccatcattaa ttagatagta acaggtgta
69841 ttatgggttg tattgtgtcc gccccaaaat ttatgtgtgg aagtcctaat acccggtacc
69901 tcaaaatgtg accttatatg gagacaggga aatgtaatca agttaacgag gtcattagga
69961 tgggccctaa tccaatatga ctggtgtcct tgtacaaaga ggaaatttat ttttgttttt
70021 gtttttgttt tttcttggag acagagtctc gctctgtcac ccaggctgga atgcagtggc
70081 acgatctcag ctcactgcaa cctccacctc ctgatttcaa ccaattctcc tgcctcagcc
70141 tcctgagtag ctgggattgc aggtgcccgc caccacacct ggctaatttt tttgtatttt
70201 agtagagaca gggtttcacc atgttggcca ggcctggtctt gaactcctga actcaggcaa
70261 tcctccctcc tcagcctctc aaagtgctgg gattacaggc gtgagctaca acacccatcc
70321 aaaagggaa atttgaacac acacacacag agaaagagag agacagagaa agagagagag
70381 aatgccacat gaggactgga gttatgttgc cacaagccaa ggaatttga gaagcttgga
70441 aagaggcctg gaatagctcc ttccctggca tcttagagg aagcgtggcc ttccaaacac
70501 cttgattta gatttctagg ctccagaact gtgaaataat acatttatat tgtttaagcc
70561 aaccagtctg tggtgctttg ttatggcagt cctagggaac cagaatgctg tcttagtta
70621 tcctcaatat tttatgcact caaagaagcc tttgccaaat gtctagtgaa gacacagtgc
70681 tagactcctt ccctagggaa ggcagctggg ttttgtgcag tttctatgtt gtccaaaccc
70741 tttgccccag gagtgggtga gaagctgcag caagtcactt acaatgaagg gtgattgcga
70801 gtaggagtga tcacctaggt ctctgatgtg tgctaatttc ctcctgtaat taacctgtca
70861 acactgtctg ttaataaacc tagggggttg ccaacattga tcaaatacaa cacgaggaaa
70921 ttggatccta tggaaaaaat gtcacatcaa agtttcagaa gcatttaaaa aaatctgttc
70981 tgattctgct gagtttttaa gtcagacaaa tcattcctga tgagttaaga ttgctggcac
71041 ctgggtcgtc tggtgaggca cctcgttttg attgcccgtt gcatagtttc atttcagcct
71101 aagatcttaa ttcctgcaaa tgatttccct agcatatatg atgaaaagta atgtgcctgc
71161 tgaagatgga tttaaccata tttagctatt ggaaagacct tgtcaggaac catctttatt
71221 catttttaa atgtttgtat agtggcatat gaatgttcaa taaatataat tttcatgatc
71281 acacaatatt ttctcttaac cttgatctct tctcctagat tatttaaatt ccctatgtta
71341 ataatagaaa aaaaggacct ataattgcta ttgaattcct gcagtttaca cactgtgcta
71401 gaaataactg tcaaatttcc ctgtaactgc tgtgaaacag cctcagaagc cagcggggcc
71461 accagcagaa ggtctgatac cttctacctc acaattaatc tagatttggc ggggcatggt
71521 ggctcacacc tgtaaatccg agaactttgg gaggccaggg caaggggctt actttagtcc
71581 aggagttcta gaccagcctg ggcaatacag caagacagt ctctacaaaa taataataat
```

FIGURE 1 (continued)

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71641 aataataata attagccagg tgtggcggta catgaccgtg gtctcagctt ctctggaggc
71701 tgaggttgga ggattgtttg agccccaggg ggtcaaggct gcagtgagct gtgatcacac
71761 cactgcactc cagcctgaga ctctgtctca aaaaaaaaaa aaaaaaatct agatttatgg
71821 atcatggatg tggaagaatc agaccttgct ttgaattcag ctgtgtcact cactatacca
71881 gtttcagaaa taccttctga gggccatgct ccctaaaaat aattttaata aagagtatag
71941 acagtttact tcttaaaaag caatttatta tctgaaagaa ggaaagttca tagtgattat
72001 tctggtcaat gcttcattca tgttgatatt tccatagata atagtagtta attttggta
72061 gttgttgatt tacatgtttc attaacttag ctacatgcct tgtagcacct aacacctcac
72121 ccttttgag caatttctca ggaaaagatt ggtgatgact ttgttttgta cagctgactc
72181 atcaccccaa actcgccctg tgatgagccc tgggaaccct tgcaaccttg atgacagcag
72241 tcaggaagta tatgcagtta agcaattccc atagaaggga agtgaagcag tgggtcacct
72301 gatactggag tctcataacc agactcgcga agtaggaagg aagcctcctt gcagggcggt
72361 tccaccacag tatgagcggc cacagaaaaa gttacccctga gtgttccgtg ctgcaccgcg
72421 tcaccagcc ccacattcat atgttgaagt cccaaaccct agtacttcag agtatgatcg
72481 tatttggaga tgagtctta aagagataat tcagttaaaa tgggatcctg ggagtgggct
72541 ctaatccagt ttaaatggcg tccttagaag aagaggagag ggggacacag acacacacag
72601 agggaatccc atgtgaggac ataggagaa ggtgccatct accagccaag gagggaggct
72661 tcagaatgaa ccagctctgc tgacacctga tctcagactc ctccaaaaca gtgagaaaat
72721 aaacttctgt ggcctaaggt gcaccatctg tgatgtttgt tactgaagcc ctatctgact
72781 aatacagtgg gtgttgcgtt tatgcaacct tttccttcat agaatgcaga gggattaatc
72841 tcctacttct tgcctgtttt ccctcagcat tagccactct ggcctcctcg ctgttctgca
72901 cacgtgccat tccctctgcc tagaacatat ttctttcaga taccttcctg gctccttcct
72961 ttggttgctt taagtctgct ggcatcttgc cttctcggca ggtctcctct ggccacttat
73021 tcaaaattac aaaccatcca cctcctacca tcccccagca ctctttatcc tccttggttt
73081 taaaattttt ctctatatca caaggtcagg agatcgagac catcctggct aacacggtga
73141 aaccctgtct ctactaaaaa tgtaaaaaat tagcctggtg tggtggcagg agcctgtaat
73201 cccagctact tgggaggctg aggcaggaga atggcgtgaa cccgtggaggc ggagcttgca
73261 gtgagtccag atagcaccgc tgcactccag cctgggcgac agaatgagac tccgtctcaa
73321 aaaaacaaaa aatttttttc tctagagggc ttatcacctc ccagcaccct atataatgta
73381 cttatttaaa catttaactt cttcattaga atgtaagctc catgaaggca gaattttttg
73441 tctgttttat tcactgatat atgccccaca gtagggatag tacaggacat gtagtaggaa
73501 ctcaaagagt atttgttgaa tgaaaatatt aataataatc atcataatac ttaatgtgaa
73561 ttgagcaata tgtgccagat actaatgct ttacgtgtat tggttcatta tacatgcata
73621 gatacactta atgtagtata gcttaattaa ttatgttaat taatatagga attacttcat
73681 ggttaaaata aaaatattcc tgtgtggtta aaaaatgttt gatttcttc ctcttttgtta
73741 tatattgtgg gagtgaagga actcctctaa aagcagagta ggcagtgata aagcttgtag
73801 ggaaactttg attcaggaca aagaaagatt tgtctttca gaaaggtggt tatatagccg
73861 ggtgtagtgg tgggcgcttg taagccagc tactcggaga atcgcttgaa cctaggagat
73921 ggaggttgca gtgaaccagg atcgtgccac tgcactccag tctgggcaac agagccagac
73981 tctgtcttaa aaaaaaaaaa gaaaaaggag tttatggtac atgtgaacta gtatttacta
74041 gttaccaatg attcagtcct taccctgtgg gaggcacaat cccttcctca gccaaccagg
74101 gaaggaatgg ataaaacaat ctgcaaggta gaaagtgcag aaatgaaatg caaagactgg
74161 attacaaagc acgttatgcc tccgtccaaa cactccctac gtttctcacc atagccttca
74221 agataagaaa gagcttttga ttcgctggta taattttgaa gcagataatt tcttgaaaat
74281 attcgatttt aatcttggtt gcttttgtgt tttgtgatcc ttattgatta cctatttcag
74341 catagttaga gtagtttaaa gttgctaggg tcaattataa tgtaaaagcc atcaataatg
74401 ctgttagatg ttttaaaaaa atagaaaaaa atctagtgaa aagctatgat ttgaaagtat
74461 aacagctgtg aaattgctac ctttcctcct tctgctcatt catcatctcc cggcttgcag
74521 tatgttggag acagcgtctg gggactgaat tgaataattt gaaggggggga aatgatacac
74581 ctttgtaaat taaacacaac tgccaggaag attgattaaa tacaacttaa ctgaaacctc
74641 attatagatt cagatgaagt tcctcatcag tctttctaca gaaaaaaaga agaaacagct
74701 cccaaatctg gatgtggttt ccccctggaat agatctcact ttttaagaag ttttccttct
74761 gtggtgttaa aaaaaatcat ttttttttc tgctgctgtt ttagaaatcc tgaaaagtca
74821 taatgcccga taaatgaatg ccccatttat gagtcacatt tactttatca tatatatgtg
74881 ggagactccc tagaggtgta tctgaagatt actaatggaa aatcttgatt tattaactca
74941 ggggaagcta catagactgt ctccaagagt tctgtactcc tctctcttat aagagtactt
75001 tgaggccggg cgcggtggct cacgcctgtg atcccagcac tttgggaggc tgaggcgggc
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FIGURE 1 (continued)

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75061 ggatcacgag gtcaggagat tgagaccatc ctggctaaca cggtgaaacc ccgtctctac
75121 taaaaataca aaaaaattag ccgggcgtgg tggcaggtgc ctgtagtccc agctactccg
75181 gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc
75241 gcgccactgc actccagcct gggtgacaga gcgagactct gtctcaaaaa aaaaaaaaaa
75301 gaaaaagaaa aaagagtact ttgaataatt ttccctcacc actttccatc atatatatat
75361 gtatatatat atacacacac acacacccac acaacataaa catagatatt tatgtataca
75421 catacatata tttatataaa cacatatgta tattcataca tacatccatg tgtgtgtcta
75481 tatatttagt attgcccgat tttgaaaact aaaaatgatg cattttcacc ataaagaaat
75541 atcatgtaat gcaggaaaga gcaaagaaga aactaacaaa tcccacaaaa tcacatctcc
75601 ccaaggaaaa aaaattagtt tggtccatgg tgaacatcat tctagatgtc actttaagcc
75661 tatattgcaa agtaaaatgc tttcaggagt caagaggaac ttccgtggtt gagactgatg
75721 tgaggagact cattcaatcc tctcagtcta ccttgagcct ttcacatgg tatggagaaa
75781 tatttctgta ccctaaaaaa aattttttt aaactacagg gcaagcaaga tgatatatag
75841 caaccaatgc tttccttgtt gggagaacaa taagagtgat ggcacctctg gcaaactgaa
75901 gaagacatgc ccgtccgga gggcacaggt atttctcagg taaagtaggt gattgccaag
75961 tggcaatgtg gtcccagtgt tgtcagaact tctgttctgc tagaagtgag acatttgact
76021 tcgtactaga aactttctaa tttaaaaata tttctcaaa attgtttaaa gactctatgt
76081 ggtggctcac ccttttaatc ccagcacttt gggaggccaa ggcaagagga ttgcatgagc
76141 tcgggagctc aagaccagcc tgtgcaacat agtgagattg catctctaca aaaaatacaa
76201 aaattatcca gtggtggtgg tgcagtagcc tgtatccagc tactcaggag gctgaggtgg
76261 gaggatggct tgagcccaag aggtgaggt tgcagtgagc caagattgtc ccactgcact
76321 ccagcctggg tgacagagcc agactttctc tctaaaaaa aaaaaaaaa aaaaaattgt
76381 ttaaaagtgc tgcaacgtag cctactcact gctatttgtt agggacagtt agataaatgg
76441 atgggtagaa agatctatg ataaataacc agcaagtcaa atgattattt aaaaataaag
76501 taattctata gaagctactt acttttttaaa aatcacaata gatctatata taaataaccca
76561 gcaagtcaaa tgattgttta aaaataaaat aattctatag aagctactta ctttttaaaaa
76621 aaaatcacaa ttttacttaa acttgataga agaaaaacag gccaggtgtg gtggctcacg
76681 cctgtaatcc cagcactttg ggaggccaag gcgggcagat cacgaggtca ggagatcgag
76741 accatcctgg ctaacatgct gaaacccat ctctactaca aatacaaaaa attacccagt
76801 gtggtggcac gtgcctgtag tcccagctac tcaggaggct gaggcaggag agtcacttga
76861 acctgggagg cagaggttgc agtgagccga gattgcacca ctgcactcct gcctgggtga
76921 caaagcaaga ctctgtctca aaaaaaaaaa aaaaaaagaa agaaaaagaa actgacatta
76981 aactgaaaga gttgctaaac ttcattaagc atttcttcac catcaaagag tcttctaaac
77041 ttaagaaaat tattgtggaa aacattatga gattggagac ttaattatta caataaatga
77101 tcactgtatt tttaactaca ggtatatgct ttagtttaag actatacaga ttgacttcct
77161 acttttagaa gatttctact ccttaaataa ttttttccttg gtttgtccca agactatctt
77221 atcagcctta gtccacttt ctcagaatgg tagggaatta tgagaatctc ataatgtgaa
77281 gtggtcctcc ttccttagta cttcttccgg aggcggaacc atagcacttc tgaatcttct
77341 gtttcttttc atagactgta ctctttgatg tttatggaat aatgctatgc cctttcctta
77401 tttggttgtt gctagagaat tttttgcatt cttaaaaacc acttttcagc caggtgcagt
77461 ggctcatgcc tgtaatccca gcactttggg aggctgaggt gggaggactg cttgagctca
77521 ggagtttgag accagcctag cagatccccg tctctacaaa aaatataaaa attagccagg
77581 tgtggcggtg tgtgcctgta atcccagcta cttgggaggc tgaggtggga ggattacttg
77641 ggcccaggt gtcaaggctg cagtgagctg tgattgtgcc actgccctcc agcctgggtg
77701 acagagtgag aacctgtctc aaataaataa agaaattaaa taaaacaatt tttcatatag
77761 aggtatcaaa gcaagtggtt ttataatcc tacaagattt tgctgtattt atctagaaac
77821 ttttctcaac tatctttaaa gctagtgtaa tatttaccaa gaaactgtta tatgcaatca
77881 atatttatca taccagatag tgtgactcat aaagtttatt ttcaagcact tgtgggtgta
77941 tcattaattt agcaatcata tactatccta tatcatgcgg ctgtaattac atgtctgcat
78001 agccatatat actatatatc aatttcctgg gttattcgac agtggtgccc ccagttacgt
78061 ttttaaaatt taatgtatttt tacgactaaa atagatctta tagatcagtc aactctcatc
78121 ttacagatga tgcaattgaa gctcagagat caatttgaaa agcttttaag tccttcaagg
78181 gactggaaat cactcaagct ttttgtaccc tcactccttt tttcatctct ggtgtgtaga
78241 accacacctt gtgtgattac agatagatca agcccaataa gaacactggt gccctaaact
78301 ccagtattga gaggctgctg gcggtaagtg aagaggcttt ccacattttc aaaccaacct
78361 tcctgcccat gacttcataa gcctatggat gctgcttacc tgtgtgttaa ggtgtggtag
78421 gtgccggcct tcatggtcgg tgaaaatgtg tctgtattag tccgttttca tgctgctgat
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FIGURE 1 (continued)

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78481 aaagacaaag ctgagactgc acaatttaca aaagaaagaa gtttaattgg aaaattaaac
78541 ttttccaatt gtggcgggga aacctcacaa tcatggcaga aggcaagcag gagcaagtca
78601 cgtcttacat gaatggcatc aggcaaagaa agtgagcttg tgcagggaga ctcctctttt
78661 taaaaccatc ggatctcatg agactatcac gagaaaagca tgggaaaagc ttgcccccat
78721 gattcaatta cctcccactg ggtccctccc acaacacatg ggaattcaag atgagatttg
78781 ggtgggggga cacagccaaa ccatatcagt atctatctcc agattttgta gtaaaatata
78841 gattcaggga atagagcttc agaaacaaag tacccctTga tttacaacta cctatttttt
78901 ttttttTttt ttttgagaca gggtctcact ctctcatcca ggctagagtg cagtggcatg
78961 atcatagctc actgcagcct caacctccta ggctcaaaca atcctcccac ctcagcctct
79021 caagtagctt ggactacagg cacatgccac catgtccggc taattttgt gttttttgta
79081 gagaaggggt ttcaccatgt tgcccaggca tcttaaactc ttggactcta gtgatccacc
79141 caactcagcc tcccaaattg caggtattac gggtataagc caatttatca agcccgtgact
79201 acctgattaa gagaatttcc caatctagaa agctttatca ccatttggag atcagaagtc
79261 tggatgaaag aaaagaacta ccttatttat ccctctgagc attttatttt atataatatg
79321 cttttttaaa tatatttgta ccagatgctc cctcctgcac caacccctcc tcgccaccaa
79381 cacacataca tgctcttgtg tgtgggattt gttgttgtcg ttgttgttgt ttggcttttg
79441 gcttttgtaa aaataggtgc tgtggtcagt acaaataatc cagtggtctt tcactcatca
79501 cattgactcc tcactctcca ttcaagatgc tttcatctga catttaaaat tgtaggcata
79561 agcatcccag cactttggga ggctgaggcg agcagatcac gaggtcagga gatcgagacc
79621 atcctggcta acatggtgaa acccgtctg tactaaaaat aatacaaaaa attagcctgg
79681 cctggtgatg ggcacctgta gtcccagcta ctcaggaggc tgaggcagga gaatggtgtg
79741 aacccaggag gcggagcttg cagtgagcca agatcatgcc actgcacact ccagcctggg
79801 tgacagagcg agactctgtc tcaaaaaaaa aaaaaaaaaa aaatcgtagg cataagcagt
79861 caggtgacag tcagccgtac catcacatcc acatgtaact atttccctca tgggaagtaa
79921 ataacttctg agtttttact aaaggacaca atggtccaat agatgtgtgt gtctgtgtgt
79981 gtgtctgtgt gtgtgtggaa caatgttcaa ccaacccttg atactttaca ctgaagaaaa
80041 attaaaaaga gacctagaat gaagaggatt atcaataatt tattgaagaa attctgttca
80101 ttttgataaa cattcattgt caatttattt tacattagga atagtgctat acttctagcc
80161 ctgttactca catccttcag catctacata aattatccat ccaaaaccct ggcttcccag
80221 ttcccagacc cctttatgcc cactcatttt tttctccacc acacctttgc tatatattct
80281 caaggctttt caatatctgt aactacacca cctcagcaat cccattttta agtgccctgt
80341 ctctgattac agcctccagg cttccctaa tatgcccact ccaacactat cttgacttcc
80401 cagatactgc caatccattg gcattatttt aaaacatcat tattattttg aaatatgtca
80461 agaatcattt cacacataca aacaatataa agaataaaac agcagtcata tatctactat
80521 ctaactatag atataaaata ttaccaagag cattaaaccc cattacatag ccttcccaac
80581 tacatcccct agataactac tatctaaact ttgtattaat aactaccatt ctcactcatt
80641 aatttttttc ttttatctct ctacaaaata ctgtttcgtt ttgcatgctt ttaaacttat
80701 aattactggg atcatacaga ctgtattcct ttatgacttc cttttatttt ctcttgatgg
80761 aatgtgagag tcgtccctgc tggcctgcag cactagttca tcattttcac ttccacgtgt
80821 tattatacgg tgtgaatata ccatcattat ttaaaacaca tgtttctgtt gatgggcatt
80881 tggttctccc atttgtttgt tttcaatttc aaacgatgct acagtgaaca tttttgaacc
80941 cctccctgtg cacagataaa tgtgtttttt ttctggaaga catggccatg ccacgggcat
81001 acttatttc atcttaactg gtgctgtcag attatttcct gtgaattccc accttttccc
81061 cttcaagcag ctcacgtcct tgcttcttt cttgcccagg ttagattccc tgaagcatca
81121 ctaagtgatt ccttTccata tattgtggcc acctgaccTt ccctctttca ctgagccTtc
81181 ctagcaaagc ccgtctttg gcttaatcca attcttatta ttctgaactg aatgtagaga
81241 ataacagagc tctgctgact gatccgctgc acccatgcga cctcatgggt gccctTactt
81301 ctaccaggca gtcccagctc attcctaaa caattctctt tcccagacaa ctgttcacac
81361 ctttctcctc caacttctgt cttcactctc aaatgatgac cgtttcccct tcttttacaa
81421 tactataaaa agcaacccga gggagaacttt catgtcttcc cacctcctga tcagtcagcc
81481 tgctgccggt gaccctctgc cgtcccacct gccacaaaag gggaactgtc tctgatcctg
81541 tctaaagcca accctcttc tgaacactgg gttccatctg ttgacaccg ctaaaggttt
81601 ttctactcta attttctcca ctgctcccat atacatattt cctcccttTc ttcaggatct
81661 gtcattagca tacagacatg ctctaatatt tcccgtctta aaataaaaat gtcctatcct
81721 cctgtcttcc acttcctcat gtatctgctt tgttgtatgg tgagctcatc aagagttatc
81781 tataccgatt gtctctattt cctcattcct atctgagttt tgacacactc agtgaaaccg
81841 ccattgccaa gccattgata acctccatgt taccaaatcc aatgatcagc tctcagttct
```

FIGURE 1 (continued)

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81901 tatcaacttt acagcaacag ttgagccagc aacctctgaa tgttcagaga ggctgtagct
81961 ctgttgctga ccaattcaaa ctggtctgca atttgagttg aatcctggga gttgagcctt
82021 gaatctgcag ctccacctga ttttcttcac taggcttcca aggcactttt cctgttatcc
82081 tctccctgcc tttgcctccc cactgcggct tcttctctgt ttcctttttct ggatcttctt
82141 ttccttcctg gcctctaaat gtttgagtac ccctaggtac agacctcgct tctcgatcta
82201 cagtccaccg cctgaagctc tcatctgccc catagctttg aataccatga atatgctggt
82261 aactcccaaa agcatatcaa caatccccctt taagggacac tgatatgcac ccctgtttat
82321 actccacatc tttacttgga tatcaatggg catgctgacc aaacaggatt ctaggttctt
82381 ccctcctgtt tgtccacaaa tagctctacc ctccacctag tttcccagac cacaaacctg
82441 ggagtcatcc ttgattcctc tttttatctc acatcccaca accaatctgt tagcgtgtct
82501 tgtcatccca aattagcata tgtcccctga ctctgaccca ttttcagaac cttccctacc
82561 agcatcctag tccaagccac tttccctctc ccaagctact gcagcagcct cctaaagatc
82621 tccctgcctc cattcttgac cctacacagc atgcttacag aaaatcaggc cagtcttttc
82681 ttgtttcctt tcatcttccg aaatatttat tgaggtataa catatgttcc gtaaggggtt
82741 caaatcttaa tgttcaactc agtttttaca gatgcatttg ctttggtctg atgttggtgt
82801 ccctcctca aaatacatat gttgaaacct aaacccaaca caatagtatt ttttttttt
82861 tttttttgag acagagtgtc actctgttgc ccacgctgga gtgcagtggc acagtcttgg
82921 ctcactgcag cctccacctc ccaggttcaa gcaattctcc tgcttcagcc tctggagtat
82981 ctgggattac aggcatgcac cactgtgccc atgtaatttt tgtattttta gtagagacgg
83041 ggtttcacca tgttggccag gctggtcttt aagtcctgac ctcaggcgat ctgcctgcct
83101 tagcctccca aagtgctggg attacaggcg tgagccacca agcccggccc ccagtgcaat
83161 agtattaaga ggtgaggtct tagggggatga ttagatcatg agagcaaagc cctcttgaat
83221 gagattaatg ccctttataaa agaggttaga cgaagcttac ctcccctttc actcttccac
83281 catgctagga tacagctaga aggctctatc tatgaaggca acatccatgt ctgcccttac
83341 cagacaccta atctgctggc accttgatct cgaacttcca agacttcaga actataagca
83401 ttacatttct gttgtttata aattatgcag tccaaggcat tttgttatag tgcccaaacg
83461 aatgaagaca ttgtatgtgg aacatctgtg aggatataga ccacttctag caccccagaa
83521 acctcaacca tgacctctcc cagtctataa ctcccaaatg taacaaatgt gacttctatc
83581 atgatagatg acctccactt ttttgaactt cgtatgaatg gagaaatact gaatgtattc
83641 tttcatattt ggtttctttc atctcttcat taggtctgaa aaaaatttct tctctttgtat
83701 ttagctgtac cttgtgattt ttcttttgctg ttatcttcca ttgtatgaat ataccacaat
83761 ttatttatcc tttgtaaagt taaagaacat ttggtctatt ttttagcttg gggctattat
83821 gagtaaatat gctatgaatg ctcttgtaca cgattttttag tgaacagaag ctgttatttc
83881 tttggggtat attttttcaaa tttttctatt tatttttagc tttatttatt tatttattta
83941 gagatggggg tctcatttta ttgcccacgc tggtctcaaa ctcctggcct caagtgatcc
84001 ttccatctct gcctccccaa gtgctgggat tacaggtgtg agccactgaa cctggcctct
84061 ttgggggtat atttatttgc aggagtggaa ctgcttggtc aaaagaatat gtgtgggcca
84121 ggcgtggtgg ctcacgcctg taatcccagc actttgggag gttgagacag gcggatcact
84181 tgagatcagg agtttgagat cagcacggcc agcatggtga aaccccaact ccactaaaaa
84241 taaataaata aataaaaata aaacaaagca aaaaacaaaa attagccagg tgtggtggca
84301 ggtgcctgta atcccagcta cttggtatgc tgagaggcag gagaatact tgaacccggg
84361 gagtggaggt ttcagtgagc cgagatcacg ccactgcact ccagcctgga tgatagagtg
84421 aaactccatc tcaaaaaata tcaaaaaata aaaaatttt aaagtatatg tgcattcagc
84481 tttagtagat actgtcaatc cattttccca agtgtgcttta ttgactcata ttcccacata
84541 agatacgaag attctggttc cttacatct tcaccaacac ttttattttta gccattcttc
84601 agtgtcgtag tcatttttta acataaaaat caaagcacaa actgtctcct gactacaatt
84661 tcccagggct cctcctggca cttctctggg ccatccttcc cttttcatcc ctcccctca
84721 ttgtcctgct ccctcactcc attcaccagg actgtttcca cctctggata ttttctcctcc
84781 gttttcctaa gcctggtgtg cccttttccc agacatcgaa gtcctttgct ctctcatttt
84841 cttgaattcc cttctcaaat gataccctcct tagaagagtc tttgcctcct gccatgctcc
84901 tattgcaccc tatctttta ctctgatttc ccttcacagt acttatcggt tgttgacctt
84961 acgtcataca cttgtttatt tgtttattct tggtttccct tggtagaatg cacactctat
85021 gaaagcagga aagttgtctt tcttgatcat ctctgcatat tcggcgttca gtgcccggca
85081 gagggcctgg cacttagcag gctctcagat gtttggtaca agagttctct atctgagcga
85141 attctttctc cccagcaatt ttatcccatc acttacactt ataatcatgt tctcctcttt
85201 tctttcatcc aatcttcatt tttttctat tcacttctct tctacctttct cttccttc
85261 tcctactcta tttcattatt cataggaggc tttggaatta cagagacggc ggggcctcag
```

FIGURE 1 (continued)

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85321 gttggatgct gaacattaaa gctctaaatt gcagggcagc aggcaaggga aaaagcagag
85381 ctaacacttc ttttgcaacg ttaaaaatgc attatgacag gcctggtggc tcatgcctgt
85441 aatcccagtg ctttgagagg ccaaggcagg aagattgctt gagcgcagaa gttcaagacc
85501 agcctgggca acatggcaaa accccacctc tactaaaatt acaaaaatta gccgggtgtg
85561 gtggtgcata cctgtagttt cagctacttg gaagctgagg tgggaggact acccgagcca
85621 gagagactgc agtgagcaga gatagcgcca ctgcactcca gcctgggcga cagagcgaga
85681 ctccacaccc ctccctgcaa aaatgcatta tcatactcta cactttatct tgaatttagc
85741 tgaaggcttt catagaaatt ctcctctctg tttctctatc cctctgcctc tttcctttc
85801 tctacacctc caactagaca tttcacagac aaatctctgg agtagagtcc attctatgta
85861 acagcaagcc cctcatgctg ttggtcacaa aaccacactg tcagagccag agacagctgt
85921 aaaccctgct ctcccagatg gagagcagcc ggagccggga ttttggttag gggagttggg
85981 aatacattag ggaaagtcta atgagaacaa aagaggcagc tgaatattcc ccactccacc
86041 ttagtgtgca agaggcagc agtccagatt tttcatggcg ttggggtctg gcagggtcgt
86101 tagtctctat ccaacaagca ttagaaagaa acagaaaata acatatatct gggggtgtgc
86161 ctgcctgcct ctgtcttgtg caaacaacaa taactggaaa acacgactta gccccttact
86221 tgatggaggg agaaatttgg aactcttctg agatgatgaa agaatagaac tagataagga
86281 aagtaaaatg ctgttcctgg tctgaaaaag agaaatgatt gatctgtagt aacaccaact
86341 acaaagagta caatccaggt agactcctct gacgctggca ccctgtcaca gagaggggga
86401 agaacatcag gcttattcgc atgtgtgcaa atggccaagc actaatgtag gaggactgac
86461 gggagtctat ctatctgtgg cttctgggta gacacaggca agcctaaccc tgcccgggcc
86521 tgtgtctgat ggcgaggctt ggtatatact acaagcacct tgtcattagg gtttatcgt
86581 gctatggata tgctaacgat acatttataa acaaagtttc taagtagtgc aattgccgag
86641 gaaaaactga ttgatttata caagtgtgga ttttttttag acatcccgtt ccatgcctta
86701 gggtttctag tgttctctag ctgggcaagt ccagactcac tttggtcttg ttctgggtgt
86761 tttccgaggc tgtgctcgct ctgtgtggat gacatgagtg tgtgtggagt ttatggctgt
86821 gataaaatac agctctggca tttgctgtgg ttccctatcg aaagccacgc tttctcggca
86881 ctggttgcct cccactgtag aatctgaaaa tctcagataa tcacattcct ggtgtgtttg
86941 tagctcagca gaggaatggc acccaatcct gggcaaagga atgtgaaggt ttctggaaaa
87001 caggttttct tccccaattt tcaaagagag gtttcttccg gtccctgcct tcgttcgagg
87061 gagcacgtga tacttggcac tgcaaccaca gtcttgtgaa cctgtgggag cagcaccaag
87121 gaccacgaag aggctgcccc agggcccagg agtcactgaa tgactgagcc aatctggaat
87181 tgcttctctc taaggcccctt ttagtcacat atcttgcttc ttgcagaaga aagcattaac
87241 aatgaattac agcatattta gtcggctatg cgttaatgac aacgtagacc caaatccccc
87301 tttcaaggcc cctcagggct tctcactgca ggtagaataa agcaggaggt cctgaacaat
87361 cagcccctcc acctctccaa gcttctcagg ccttgctcta tgttccccac gtagtctcct
87421 ccttcacttt cctgtgtgtt ctcactgtca aattctacct cagggccttt gcacacactg
87481 atgaactgaa tcctattcct tcctctgcac tgactttaaa agctgcttcc taggaatggc
87541 cttgttctct tactcaaact aaagcagatg cctggtgtta tttttctctg tcagttcct
87601 gctcttttccc tcggaggccg tagccaactg tgtggggctc ccttaacatg cattccagtc
87661 tccttctcga aggcagggcc taagactcaa actgcctttc ccaggctcca ttgcagctgg
87721 gttctagaaa tggttgagat tctgcccatc agacatacct gtgggaggtg gtttagacat
87781 gctgctacat ggtgagagag agctggatag aggggttcat ctgactggcc gggtcctgg
87841 cagaggatgt gagatttctct ccttaacaag ggcaggagct ccctcggtgg cctagttctg
87901 caatagttgg gggcgatgat cttggaattt tggcctagag ttgtttcttt aggcctcttt
87961 agaatatgga gctagctgta ctcttaatgc acgctgtct gcttaatttg tctatagtgt
88021 atcctgttgt ccataattac aaactttgac ccataaagca atagtcattg caatttgtaa
88081 ttatatattc atttcataca tttcctaaca ccctggtatc tctaactaac ctctgtgctc
88141 tgaacactta acatagggta cagtgtctgt agctcaatat ttattgatgg gtaaataagt
88201 agacaattga gcaaaaccag acattgcatg taaagttaga agaaaagaga aagtcctgaa
88261 gttgcatctt tgatatttaa atcttgatg atttgaaaga agccagaagc tgacatttac
88321 aataagttcc caacttgctc aattcacctg gcaggctcat cgctgtgata gccaaactag
88381 aacagaggtc caggaaatat gaattccaac tgttattaaa tgcaaatagc atcttaaccg
88441 taggattttt gtttctcaag aaacataatt tgtcaggaga gatttctcag agccttttcct
88501 gttcctccta agagagtata tcccactcctg agatgctctc tggtaccatg gaactctcca
88561 tcaaaggtgc agcctcacat tctctcctgg gcagttccct gctgctgactg tcatgcccac
88621 ttgactgtca gatccatgag ggcaagagcg cacattgcac aatgcctagc acacaattaa
88681 cacttggtat atgttggctg aagaacaaat gggttgtact gcatgttatt taatcacaaa
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FIGURE 1 (continued)

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88741 ttttgaggaa tttcacacag gactaaaatt agtgttatat ttcactaat tattgagtca
88801 gatggctctt tttctggctt atttgtgtgt gcacatttta actgcatgtc ttacacatgt
88861 aaaaatattt tttttataca ggctgcagcc ttcttccatt gttgcaggct ctctcttcta
88921 ctgtgggact ttcccctctc gaatgctgaa aatagcaaaa aaagtgtgtc tctcattctc
88981 tttcccctca ctctttgcag ctaggcttat tccctgacgc ctctctctac ctgatgttct
89041 cgctaaatgc ttatactctc tgaggtcatc cattgtttga gttattcctg acagactctc
89101 accattataa gtattaaagg ggaggaagaa ggggctgagg agactgaagg gaaaaggggga
89161 gaaacccctc atctcagaaa acccctccag aaagatcatc tctttaggaa acaaggcaaa
89221 actgcggttg gtatttctcc actgtggcca aatattttga ctcaaagtct gatgtagccc
89281 atgtttaatt ctgctctgtt tattgatgta tgtttcatga atgggaatag agtttgctgt
89341 tttactccaa tataatttat agtacatttc ttctgataca ttataggcat atatgactgg
89401 catattattt gtgcataaa ataatgtatt tcctcttctt tttttcttt ttttttttt
89461 ttccagagac agggtctcac tttgtcaccc aggctggagt gcagtggtgt gatcatagct
89521 cactgcagcc ttgacctcct gggctcaagc aatcctccag cctcagcctc ctgacagctg
89581 ggactataga cgtgcatgac catgcctggc tactttttaa attttttcta cagaaggggt
89641 ctcactatgt tgcccaggct tgtctggaac tcctgactgc aagcaatact cctgccttga
89701 actccccaag tgtgttggct cacgcctgga attacaggtg caagctacca cacctggccc
89761 tcttctcttt caattactcc ttcgatgctt ataactggca ccaatgtcca agatctttac
89821 tgactccagg agcccctatg agcacacaga tcattagact ctcagtttta ctcccccaagt
89881 agttgggatg ccctagttct gaaatgctct tccttgcaac cggagttgag gacccctggta
89941 tcttctcatg tccttccttc tcacccatct tcttgaatac gactccccaa cacatggaca
90001 cacaagcatg tgcatataca cacacacaca ctcttcaccc atccataagg tccatgctcc
90061 ccagggattc gggaatctag agggtgctgt cagcagcctg tctggggcca taaagcataa
90121 ctgccaagct gcaggattga agacaaaatt ccgatgcaaa gataggagca cagatagggga
90181 catacaaagg cagatggcac catagcccag gagccctaga tctggtatg cctgggtatg
90241 tgtgagcaaa ggggaaggga gtggtaacgg agagggtgag aaactcatgc agctattttg
90301 tagtaccttc aactcaggac tcctcaacct cttaaaaacc agtttcatct taacttggtt
90361 taaccaagtt tgccttcagt aacagtaatt ttttattaa aagttttatt atgtggtgag
90421 aatgtttaaa aacttactct tagaaatttt gcagtataca atacatcatt attaatatg
90481 gtcaccatgc tatgcaatag atccctaaca cttatttctc ctgtttacct gaaagagtaa
90541 attttgaata ttctcaccct aaaaaatttg taagtaggtg aggttaatta gcatgttaat
90601 tagctttaat ttttctacaa tgtatacata tatcaaaaca tcttattgta ccttgtaatt
90661 tatacaattc tttttttttt ttttttttt ttgaggtgga gtctcaccct gttgcagagg
90721 ctggaatgca gtggcacgat cttggctcac tgcaacctct gcctcctggg ttcaagcgat
90781 tctcctgcct cagcctccct agtagtgagg attacagatg cctaccacca tgcccagcta
90841 tttttttttg tattttagta gagacagggt ttcgcatgt tggccaggct tggtctctaa
90901 ctcctgaccc catgatcctc ccgcctcagc ctcgcagagt gctgggatta caggcgtgag
90961 ccaccacgcc tggcctgtaa tatatacaat tcttatttgt caattaaaaa taagagaata
91021 ttaaataaga attaaaacta gaaaaacatt ttattattgg cagtatttgg gtcatgcaaa
91081 agaatatatg taacatatct cagtattgtc acacaatgac aacacaaata cttgtgaggc
91141 aatgaagttc acatgtcaat gctgagcccc gtatctcaag tgcccctaac ttttcatagt
91201 cacatgacat tccttttaca gaacatacaa actttcatgc tagatattga aaagaagtct
91261 aaaaatgcag ctaccagggg gaatcaacaa gttggtatga atggcttca ggcaaggcat
91321 aaatggtggc agccagttat gagagggttg gaaggggaaa ggttcttcag gcctgggga
91381 tgaggggcag agacatataa atacctccta aggaggaggga agaaaggggg gctagatatt
91441 aaaaaagaaa atgccccaag tttttataaga cttctcccac acgtgcaccc cactaactgt
91501 ctctattcag agacatataa aaattgtgga cagaagtact tcaaaatctg tttcgtcaca
91561 ggtgagaaag tacacagctt tgtagagact atttccaaga tggtaatatt tatatcggca
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91681 cagaaaaatg agatttagag ctcaggcatg ctacagccca gaaggcagac agacaagaac
91741 ttagaaaatt ccaaaacagt ctcaaagggt gattctctta ctccagtttg atacacactt
91801 ccactgcatc ctagagcctc ttcagaatta agataaaaca ttttcttggtg cagtaatttt
91861 tttttttttga ggtggagtct tgctctgtcg cccaagctgg agtgcagtgg tgtgatctca
91921 gttcactgtg acctccgcct cccaggttcg agtgttctcc tgcctcagcc tactgagtag
91981 ctggataac aggcatgcac caccatgtca ggctaatatt tttgtatttt tagtcgagac
92041 agggtttcac catgttggcc aggctggtct caaactcctg acctcaagtg atctgcccac
92101 ctcagcctcc caaagtgctg gaattacagg cgtgagccac cacacctggc caagtgtagt
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FIGURE 1 (continued)

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92161 gatttattta atgcctgtct tcgctgatgt tttgttagct ccaagagaca ggacttgtgt
92221 ccatcttgtg gactgccata cactggcacc ttactctggc tggcgcttaa taaataatca
92281 ttatataagt gagtgggtaa atgaatgaat gctagaaaag aggcaagcat ggcgtgctga
92341 gtggccagta accatcctgg gggtcagaga ggctttgggg aagaagtgat atttaagccg
92401 aaacctgaag gagaaatggt atttagccag gtaaagaaag agcaacgctt caaaagccca
92461 gaggcaagag ctcttggagc agcctgaggg tactggaaac gaaactgcat ggctgaagct
92521 tacagatgct gctctgtgca tgggctgttg tgcaaagtag aaacttctca tctcgaggtg
92581 aataaaattgc agaagggcgt cccctctcta ggccaaccaa tgagaaaaaa gagacttcct
92641 ctgggatgat tgagtctctc cgctgtgcac caggaggctg aggtcagcct ctatatgagc
92701 ctttgtcggg gagccctcct gtaggatgcc acctgcacag gcatgcccag aagccttggg
92761 aggaggggagg agggtgccga gagctgagtt agatcttggt aagcaggagc tgactcaaaa
92821 acagctttta tggcactcta aggagtttga actttgctct atgggcagcg atgcactttt
92881 gaagaacttt aacctaacag tgactctctt acagaagttc gttcaacaga catttattgt
92941 gctcctgctt atgcaagagg cacaccagta catgcggttc tggggtaca catggtgagg
93001 aaaagagaca cggtacctgc cctggtggaa tttacgcttt actagtgaaa gaacgcatac
93061 tggggggacaa gtaagagaca gaacaccgtg agagcagctt gaactagagg gagaatctgt
93121 taaacaatcc tgcaaggtca acgtggtatt ctgttttcca gataaggaaa ctgaaggtag
93181 ggaggtttaa gtaacttatc caagaccacg caagtgagct tcaaatgcac ttggtgtgat
93241 ttcaaatccc atatccttgt actacagaga taagaacaaa atgatttatt atatgttctt
93301 aaaaaaaacc tgaaacatga atatagaaaa gatgtatcat tacatttaca cacactcaca
93361 cacacacact cacacccaca catccccttt atcttcctttcc cactcaccc atgcacatat
93421 accctagtga aataaaaccc gacccacctt acttttcagg aaacacagtc tggaaaatat
93481 ttgtcaggac atggccaatg gcttagctgt aatcctata tgggcctatt caaactagtt
93541 aattcttttcc tggggaaaac cattctgtaa ttgcagacct tgtctcttaa cttagcagag
93601 cctctgacag gtggatgcca tttacagggt cccagagctg gaaaagcca gtctgactgt
93661 ctgttttaga actcttaagt tcaggtaagc aattttgtaa attaatgtca gttatctctc
93721 tttttttga agctggttgg ggtagaaact ccatgttcca aaattttgtc accctgacca
93781 ataaaatgcc ccctgcttc aaacacaatc agacctgctt tagggggaga tcgtctgtgc
93841 tttgtttgag ccttgattaa aatggagatc agaaagactc acagatgtct cttctccaaa
93901 ctcaataaac cccaggtcct cttactttc atcttacatt ctctctctttt ataaaagtat
93961 tcatttctct tctttgaatt atcttcttttc aaataatttc cttcgttaga aaaaatgtag
94021 gtatatgcat tttgggaaac aagagctacc aatggtaatt acaattgatt tttattattc
94081 atgagattcc tattattatt attctcattg cagttatgtt ctacaggatc actacgaaca
94141 ctgaatgagt gaatactgaa ctacattgct cctaggagaa aaatagggtt aggttcctgc
94201 aaacctctgg tcaactggcc aatacataac cttgttttat gtgtatttct gttgaaaaac
94261 accttagtgta acatatatta ttgattcaatt aacattgaac tcacatccag cggccatata
94321 actcatgcct gaatgaagct tatctaacgc atgtattttc tctgtaaggc acatcacagc
94381 cttctggcat ttagggacac caggcagcgc tgtgctcagg ggccatttttg aacagtgaaa
94441 ccaccaacaa aaagcataaa aatgtgaaga acgtggtaca aattgatgg caaaaaggac
94501 acctgtttac aggataaggg ctgaaacgag aaggcctagt gtcaccttgt ttgacctcag
94561 gtaggaacgt ggtggttggt aactcgaatt tttcaccact ctgcatgtcc atgaatctct
94621 ctgaaagccc catgaatatt gatttttgagg ttacaaataa acttaagcaa gcaggtgaat
94681 tggcaaatac ggaacttctg aataatgaga attgactgta tttgttcttc tctattaagt
94741 aacggggtct gttgcagatg gaagaaagaa agggtgaaag attttttggag actcaggaga
94801 cttttttgaa aatgatttgc ccaaggcaca gaaccaaaac agtagttcat tggcctaagg
94861 tggagaaata taattccttg catctccagc aatctgtctg cagttctctc cctgtgaaaa
94921 atgacttgcc ataatataca agccttgtta ctatgtaagt gtaattatat tttaataaaa
94981 aatagattta taaccaaaca ataagccgtg agattaacag cccagaactg gctgtgaact
95041 ttcagccatc taaccctggc actcctgctt ctccgcagca cttacttttct gccaggagtg
95101 ggtgattgaa caccactgac caggaagggc tcctgggagc cacattttttt gcttggcatt
95161 tttaattgta aaaaccagtg ttccaccaac actgcaattc aacgaatcaa aagtcaaatc
95221 catgcttaac aggaaaagat aaaagcatca acttaaagga acttaaacaa tttgaaaagc
95281 aatggaaaag gaaactcata tggagtgaaa tccattcaag acacgtttta ttgtttttcc
95341 catatgcatt tgctgcccag ctttgactat taaacattat tttttttctc tactaaaact
95401 aaatagtaat ttgacttcta gattcttcca gggtcgtgct ctgaacagaa gcaaaatgga
95461 aatatttcag tagctttttta gacaactatt tcaaaagcaa cacacatggtt gtctgcagag
95521 ttgtaggtta aagctataaa tttattttat taaacagaga ggaattggtg aaactgaaag
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FIGURE 1 (continued)

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95581 acactataac cctgcacattt tcatgaaata atattcttgt ctgatttttt ttttagtttt
95641 tactcagata tcactcaagt tacacataaa tggtaatttt tcttttataat aagcttccat
95701 ctcttgtata aatttaatgt gttcagtgat gactgtggat aaagtcacct aacggtgatt
95761 ttctaaggga ggtaaacttt attgtcataa tttcctggtt attacctagt aaaacaagtt
95821 tttaaaaaac caaaaaacaa tagacttaaa accataaaga ctttttttagc attcagatta
95881 aataaaagaa agggtaaaat gttgacattt tcctaagaga taccagttct tcacattttt
95941 atataatctc ttaatatgaa gcatataatg tgtatattat aattatatat tttatattttt
96001 attatataaa attataatat aatataataa agtgtttata tttataataat aatataataa
96061 agtgtatatt atattatatt tataatataa tataataaag tatatgttat aatttatatt
96121 aataaaatat aaaacatata attataatat acactttata tggtaacacg atcatagtct
96181 ctaccaatac atatatctga ttagatcacc atatgggaag tctgttcata ttttagtta
96241 ttgggttttt tttttcaccaa gcaataaaat gtccagtatc aataaaataa gggtcatatg
96301 attcccagat gacatgacca gggtactcat aaaattcaga gaagctgagt cagatcattt
96361 caagaggaca aatgcagcgc tcccccaaat tcagtaactt gtggaatgta gcaatcttgt
96421 attttctctg agccaagcag cctgatgcctg tcaaactcat ctttcatttc ctctgcctta
96481 ccgcagtgtt agtggtttcg ttattagaag gaaaaaaatg cataaatgtc ttagttaaga
96541 tgaaattgca tctattaaaa taaagttgat cctaaatgat tctttcactc aaagtattaa
96601 tagactaaag gaaaatgttg caaactatga attagtggta tagtttatga acggtagctg
96661 ttgtgcttca tgcatatacc ttttgggttac cttataatga aaggttgttg ggtacagcct
96721 tcacatcaat gagaaaatca acaaaatgtt cttgaaaaga cgactggcaa actttctttt
96781 attttttctgt tctcattagt agaaagaggg acaggtcact ttcagaagga ttaaaaggtc
96841 aaaaaatttg gtgaaggggat gtctacacaa gcctttagaa agctgtttatc agaggatcag
96901 ctagaaaaca atcttagagc taatcctttg gctggatcca aagaaaaccc agcagattta
96961 agttttctct tttttctctt tgttttcctt tacagggta tttcccacaa aagcctttca
97021 gttgccttca tccaaagtta taggtcctga gtccttttca gctcttttat tctgtctcca
97081 agcctagccc ttcctagctc tgtcctccta ccttttcctg atcttttcca ttttgcttgt
97141 tttcatcagg ggttccccct aaatccctct tagcatcccc taaagcctaa atgttcatgg
97201 atggagaact tcttctgagg gaaaaacaag actgattcac agaattctag cattaaagag
97261 gactgtagaa attatctagt ctacccgcct tcttcctcca ccatttaca ggtaaacaga
97321 attcacgaaa ttgcccaagg tcatgtccag gtagcgactg caccaggacc aaagctctgt
97381 caataataac tgcaaattgg ttgcaaagtc ctttggacaa ttcaagtcgc tctacctacc
97441 taaggcacta tgattattat tattataata cagatgttat tatacagagc cgaccggcatg
97501 ggcaagattg ctgctgatga tgtgtgtgat gccaactcac caagacccag tggcatcacg
97561 ctggcatgtt gaaaataaaa aggggtgaca tctgctttac atacagagcc tcatgacctg
97621 tactcatagc tggaggcatc agtcattgca ctacgagagg aagtgggctt tgaaataccct
97681 tggggttgat gtcccaagaa caccctttctt ccgctcctcc tccctgtact ccttgaactg
97741 ctgctcatgg gagcctgagt aatacagaaa ttggaggaca accaagtgtag acaaagtgtag
97801 gtttgacagg agtttacata atgctgtagg aaaagaaacc aaataaaggc ttcagctttg
97861 ctgaggctct cccatcccc ctcacatgcc aaatgctcct tgtgtggcctc acactccttg
97921 gtcttcagtc agagaggcca ggagcccacc tatacatctg tatcagggtt aggaagttgg
97981 ctcttgttaa caatgttgaa tgcactttgc tattcactac tttttgtggtt agaaaagcct
98041 cctgatatca aacttttagaa tcaagcacca ccttgtggtc tgatgcattt attaaactgg
98101 cacaatttga gagctgaaac tggaaatgct ccctcagctg gtagtagaga gccaggatct
98161 gaaaactgac tcccaggtgg ctgcctggaa gcaagaaccc ccaaggtgtc tttctgctgc
98221 ttctctgggt tctcagacca gttaacaatg acatcccctt tcatggggtg aatcccatgt
98281 tcctgacact aacacattat gctagatatg tatagtaagt agccaactta atcctttcaa
98341 aaccacaggg aagtgttttct tattacttca actttaagt gaggaaacgg aggcggaggt
98401 cacttagtgg tccagtcaca gacaaatggc tgggcttgga ttgacttgga agtcaagtct
98461 ttctgaagca aaagtctctg ctgttaaaca ctgctctgct gacctctaag gccaagacca
98521 agaccagggt ccacttcagg ctctttttggg gcattttggc tttggctgc aaacccaacc
98581 agaactgcca gaatcctacc tggaactcac tcaaggtgct agaattaacc tgttctccaa
98641 ggttacattg atcaggaagg tttgcattca gagatggggga cttcattggt gtccatggac
98701 ctactgagat agccagagtt taggagaaag tttggctttt gaggatgggc cagcacgcaa
98761 gtgaccagac tctagatcat tcatgaagaa acaaaaccag aaagataagat ttgacaaaca
98821 ttcacttgga caattacagt gcttcctgaa ctgaaattca gttattcttt aaaaggatga
98881 ttttatcata ttcattgttt gaagggaggg attggagtat ctgcttggca agtgagtagt
98941 agtaatgtgg gccaagtcat gttagaaggg agatctcgcc cctggtcttg ttccagtgat
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FIGURE 1 (continued)

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99001 accataagtg ttcttgggta agtcacttct ttgtctctgg gtctccattt tctcattcgt
99061 agaatagggg ttggacttca ctaagaggta gatggttcta aagtacagcg caattgtatg
99121 gaaaatgtga ggcaggaacc tcagctttct ccgtttcctt agaaagtctg tcctgctcag
99181 gcttccttcc tattctccac tgaatctgct gctaattttg gtaacatggt gacttccaca
99241 tagcaatgtt tactaacatg tctaaggaca atgattacgg ggaatatatg cttctctgtt
99301 tttccaaagt agataaatcc atatagttca taactccctg actctcccata caccaaaaag
99361 aaatacaaaa agtaccatga aaagaggaag cactgccatg aacggtctcc ccttgaatgg
99421 ctagtatgta atgccaagac agtgcctgtt catttcaaag cctctcccat tctagttcct
99481 tcctgtgctc tcactccgaa tttcttactt gagatcgcta ttggttgagc cattctttta
99541 acagataatc tgtactacag tagactctaa aacagagctg tccaacagaa ctttccgcaa
99601 tgtagaaaat gttacttgtg ctctgcagtg gccataggtg actattgagc atttgaaatg
99661 tggccagtaa gactggacca agtgtttact tttatttaat tttcattaat ttaaatttaa
99721 atagccacaa gtgactggtg tctaccatat tggacagtgc agctctgcaa tattgccatc
99781 acatagcct ttgttgcaga cattctgatt tctctgagac acaaagcgta catcataaca
99841 gggctatcct gaatactggc tttacaagca gactttcaaa agattgtttc tccatgtttt
99901 tcttgtatac aagatttcat aacaataatg gtatgtcagt ctttttaaac tgtattctgt
99961 ttgagataac tgaattgttt cttgacttat ttcaactgaa tagttgaaaa ggaatcccta
100021 tttgattcca tgggaataaa actgattcct tggttgcgaa taaaaagaaa agtattatct
100081 cacttgtag gtttttccat tcaataatag aataaatttg aatgtacatt ttctaatggc
100141 ttccagtgaa tgagtaattt tgatgccaaa caattttttt tttttttagaa ggccatctcgt
100201 tctgtcaccc aggctggagt gcaacctcca tctctcaggt tccagtgatt ctcctgcctc
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100321 tttttagtag agatggggtt ttgccacgtt ggctgggctg gtctcaaact cctgacctca
100381 ggtgatccac ctaccttggc ttcccaaagt gcagggatta caggcgtgag ccaccgtgcc
100441 tggccctgat gccaaacaat taataataaa agtagatttt cactttaaaa agggagcttt
100501 atatataaat tcatttttcc taaaatattt gatatggaag atgaaattag gaaaaaaact
100561 ggtaaaattc taagtgcttt attataaatc tcttatcctg agtaagctca agtgacagtc
100621 caagtatgtt tctaattaat taggccaata tttctttttt tttttttgtt aggaaacttt
100681 tacttcttaa cttctatcaa gtatatttct tttttttaat tattattatt ctttaggttc
100741 tagggtacat gtgcacaacg tgcaggtttg ttacatatgt atacatgtgc catgttggtg
100801 tgctgcaccc attaactcat catttacatt aggtatttct cctaatgcta tccctttcccc
100861 ctcccccccac cccacatcag gtaccggtgt gtgatgttcc cacccctgtg tccaagtgtt
100921 ctcattgttc aattccctcc tataagtgag aacatgcggt ggtgtttggt tttctgtcct
100981 tgctatagtt tgctcagaat gatggtttcc agcttcatcc atgtccctac aaaggacatg
101041 aactcatcct ttttatggct gcatagtatt ccatggtgta tatgtgccat attttcttaa
101101 tccagactat cattgatgga cattggggtt ggtccaagt cttctattt gtgaataatg
101161 taattaggcc agtatttctt aactggaaca aagattgagt aacattatcc acgcttatct
101221 caaaataaaa cctttaacc tcaaagaata taaagaggtt ttcaggtcgg agatagtcct
101281 gagaaagtga tacctaggct ggaagagaag accaaaaagt cttacaaaat tgtaaactta
101341 caattttttt ataaatgtgg taaattttga taaatgcttg catgagaaaa catattgctg
101401 tgttttagaa tttgtgaggg acatcagtaa gcaagagatt ctgactttgc tctggaatga
101461 gagagtggaa ctcctagtgt cttctcctcat aatctgctga acgactgagg ttttcatcct
101521 aggaccatat gatgacctgc tactccgggg ctgcctgtgc tttataatga tgctataacg
101581 acactgttgt cctatgggat ccgagctcca gttgaagaat gtttcatata cttctattct
101641 tggtgcagag aattgtctct actatagaaa gtgacttaac actcccaaac tgcatcgtct
101701 gagaatgggc atttctcatg tactcaaagg ttaatacatg gaaatcaatc tcaggcctta
101761 aaaaaggaaa acccagcggg cgcggtggct cacgcctgta atcccaccac tttgggaggc
101821 cgaggtggga ggatcacttg aggtcaggag ttcaagacca acctggccaa tatggtgaaa
101881 ccctgtctct actaaaaaca caaaaaatat ttgtcaggcc tgtggcaggc atctgtcatc
101941 ccagctactc gggaggctga ggcaagagaa tcacttgaac ccgggaggca gaagttgcag
102001 tgagttgaga tggcgccact cgcactccagc ctgggtgaca gggcaagact ctatctcaaa
102061 aaaaaaaaaa aaaaaaggga aacccaaaat gcagcagaaa accaatttaa gtccgtgctt
102121 ctatttcttt gtgatttggt tttcgtggga gtttgggctt gagggatgt agccgttcct
102181 ctggggtgtg atagcacatt tgtgccatga taaggccagt ccctgtccca gtggagtcat
102241 ttctcaagtc ctgcgtcatg gggaaagtga aggtctcccc tgcccactct actcccactc
102301 aagtggctgc agaagagggg gatattaggc accataggac aggaagagcc acagactcag
102361 tgacctctat gcaatgagga ggttggtcag agcgcatttg tcagagaacc agctgtgaaa
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FIGURE 1 (continued)

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102421 tgtatggagg cggaggggaa gcactttcca aggttaacca atccaaccct tagactgcca
102481 gctgtcctcg cttagaacca cggctgatgc agctgtggtt gaagcatgga catctagtta
102541 tcgtaggaag agagatggag aattcttccc ttgcagtcaa tttgtaagct gatgcaagaa
102601 aaccaccatt gtagccacaa aatcaaaatc aaagaggaaa gtgaaagaat aggacccagg
102661 caggctgtac aaccaagcat ttcctttagc tcctcttgac caaaggcatc ccaatttccc
102721 agtgaagatg aattagaaat tacatgagaa ccatacggta gattatttct ggattggtgt
102781 ataaatatat acagcactga cgccaattgt ttgaaaaact gcatgtgtta tatcagttgg
102841 gtgagtttag ctcttctcaa tggatctttt agttattgga ataaattcc aacttatagc
102901 aacttcttca gtataaatta agcagacttt cagcaagtcc tgtgaatacc cagttcctgg
102961 cacacagtgg gcctcattac aagttgactg aagaacctca gttctgggtt ctgtgacaat
103021 tctgggccca gagttgtcac agggcaaatg agataagcag cattgcttgg agaatgttgc
103081 ctcaatcatt cgtgttcctt tctggctgtg atgtatatta cactctccat agtaattgtc
103141 tgtctccata aacccattta aaaatacaca tgttaacata ataggattgc taattatact
103201 tggatgttct tgttccttt tctgactcta taataaagcc tcaaaatgct agctaggtca
103261 tggccaccta aaagaaatta cattttcttg accgccttcc agcagatacg gccaagtgac
103321 tacactttgg tcaatggata taaacaaaag aaatgtgtaa ggctccagga tctatctttt
103381 aggggtaggg gtaggccctt ctcctgcctc ttttctcatc cctacctgca ataacttaaa
103441 tatgatggct taagctagaa gaaccatttt ggaccataaa gtaaaaatcc tctgttgaaa
103501 atagagggaa caggcctggt gcagtgactc gcacctctaa tcccagcact ttgggaggct
103561 gaggcaggag aattgcttga gcccaggagt ttgagatcag cttgggcaac atagggagac
103621 ctggtctcta caaaaaatac aaaaattagc tgggcatggt ggtgtgtgcc tgtggtccca
103681 gctattcagg aggctaaggc aggagaatca cttgagccca gaaggcagag gttgtagtga
103741 tctgagattg caacatggca cttcagcctg ggtgtctcaa aaacagaaaa caaaaaacaa
103801 aaacagaaaa ggaaaaagaa agaaaataga atagcatgat aaaaggagtg taggttgagt
103861 gagagagagg atttggtgga acagaggtta taaagtaaaa taaaagcaaa ggtattatgg
103921 ataaaatcca tgttcagaca tcatcattct gattgcttat aggcagaatt ggtagaattc
103981 aggtaggcca gatgccatga aattttgtat tgacaaagag accagcagtc tagactgcaa
104041 aagcctttga ccattcaata cctaaggtga ccaccttttcc cagacagcca gcaggaaggc
104101 tgtgaaagct gtgaaggctt taagaaaggc gcgcacttgg gagtattatg agctgggaaa
104161 catttcctaa aggagagaaa aacccacagg cggcagtgaa tgaagaagtt ttgcccaggg
104221 agcaggtgag agtccagctg actctcatga ttttgtttc tctttctgcc cagtgggatc
104281 tgataatatt tagagataag gaactattat gtgattctca gttttttaatt tttctgagtg
104341 ggagaaatgt ttgtttatat aaagtttgtc ctgttcttat tggacttgta ggtgtgttgt
104401 attaggtaac ttacatttct attttgtagg gcccctgaaa atgagtagtt acactcagac
104461 ctgataaaga gcatggaata gtacctgaaa atcctggact tgaaccaga tgcatgaatt
104521 tggtggaact ctgggattct ttatctggga gtacagggt tgagtacatt tcaaacatgg
104581 aaataaggt acactgagat acatgggtgg ccaaaggga gacatagctg tctttcaata
104641 tctattatcc cttaggttct gtgaacctga aagaaccaag gactataaag agcagtggtg
104701 tacaactccc aggaattgtc tttaatggga gatcatgtgg ctttatcttg tctcttttt
104761 gcatcctgct gcctggaaca cagatgtgat ggctggtgtt gatcctgctg tgtgctgagg
104821 gagatggaac atcaaggtag aaagcactgg accttctaag gactggagg ccattatgcc
104881 agccctggat catttacatt cagatgagtg tgcaaattt tattcccta aagccactta
104941 gattttgaat tttcagtcac tctcagctga acccaatcct tactgctctt ggaagacatt
105001 tacactgtgg gaaccttagg atgcacttt tttctttc tttctttctt tctttttt
105061 tttttttattg agatggagtc tcactctgtc actcagctg actcagactg gtgtgatctt
105121 ggctcaccgc aacctctgcc tcctgggtc aagcgattct cctgcctcag cctcctgagt
105181 agctgttatt acaggtgtgc accccacacc cggctaattt ttgtatttt agtagagacc
105241 gggttttggt ttctccatgt tggccaggct gttcttgaac tcctgacctc aggtgatctg
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105361 gatcttggtg ggagagatgg ctcaaggaga ggaaaagagg gaggtattag tacaactggg
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105481 tttttgtctg atgaggtggc ccattgctct atggtaagtg agatgactca gaatacaa ttgctcacct
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105661 ccagtctctt gcattctcta gtaggtggtt tatcttcagt aacttttgca aattgcatca
105721 acatacttgc ctcctacaaa tttaaactca ataaaccaag gagaacaagg gtgtgatggt
105781 gggaatttct tttgaaagag tcaagcccat gctgtgcagg ctgcacccat ctttactgca
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FIGURE 1 (continued)

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105841 ttcccataaa aggcttgggg gaaggaagtt aaaccataac cccgttaggt aataggctat
105901 gcattaatgc aatttatctg gaatgaggaa ggaagagatt cagctttgaa agaatttcct
105961 caacagcata ttcctctttg ctgcaaagct gtttcacttc aggtgagacc caggaagcag
106021 cctgggaatt ccttgaccat cgataccaaa ggctttctgg aggtgtgcag tctctaggga
106081 tttgagggtg tcgcccaaca gtcagtgtca ttttacaacc agttctctct aggctaattt
106141 ctaacgcagg gaatgagaat ggtcatgctg aaaagtggta gagagatttg actcgcctga
106201 ttgcaaggac caggtctacc acccagtaat tgtgtggact agaaggtggt ggagtgagta
106261 gtgacctctg aagagtgtga cctctcaagc caactgcttg agctccaatt ctgcctctgc
106321 tactttgtga ctgtgtagcc ctgggaaagt tattttacct ctctgtgcct cagtcatttc
106381 ctctataaaa taggtctcta tatggaccta ccttataagg ttgctgtgag tggcacatgc
106441 aaatgtgttt ataaagtata tcccatggta tgtggcgtaa tttatttttt gaggggagat
106501 agtgaggtgc tagttacaca ctgggatgag gtagatcctt gtttggatct cagccttgct
106561 gctccctggg taggtggctt tggatcgctg ctcaccttgc caggtccctc tggctcctcc
106621 ttggctgaac atgctttgac tacactgacc tttctgtttc tccagccctc ctcatggcct
106681 gtatataata tttcttccag ttggaatgct ctctattaac cattatgatt ctcatgaagg
106741 ctgtttctgt tctccaggct gggttcaggt ctctgtgata tcactcaagg agttttgtac
106801 ctaccctcct gagcacttag aattatgcta gagtattcat ttgtataatt acagttgact
106861 cttaggcagc tccagggatg ggggcaccaa ctctccttgc agtcaaaaat ccacagataa
106921 cttttgattc cccaaaaact taactagtaa taacccgctg ttgaccagaa accttagtga
106981 taacataaac agccaattaa cacccatttt gtatgttata tgtattatat actgtattct
107041 tatgataaag taagttaaga aaagaaaatg ttatttaaaa aatcataaag aagagaaaat
107101 atatttgcta ttcagtaagt ggaagtggat catcttaaag ggcttcatcc gtgatgtcct
107161 cacattgagt aaagaggagg aggaggagga gaggaggagg aggaggagga gaggaggagg
107221 aggagggggct ggtcttgatg tctcagggc ggcagaggtg gaagaggtgg aggaggtggg
107281 agggaggcag gagaggcagg cacactgggg gtaactatta ttaatgaaaa tccttgtgca
107341 agtggatctg cacagttcaa cccatgttat tcaagggtca actgtattcc tatctgtact
107401 caggactgtg agttccaagc atggttaaca agtcctgtgt ctttcaaccc aatgtctata
107461 ctggtgcctg gctcagaggg gacaaaacaa atacatgaat gctgaattaa tacatacata
107521 cataaaatga atgtgagaag aatttccttt tctgatggtt ttataaacta tgagctactt
107581 gaagcagat tacatttcat ctatagttat atccccaaaa gcctatagtt agcaagaaat
107641 taatgtattt gtcatgtgga tgagtaaact gtaccatagt gattcgaatt taattcacta
107701 acatataaca ttctgatttg aaaataaata aaattacttt agaaaagctt atgttggata
107761 taacctaatt tatacaaata ttcttttttt atttgtcaat tgagaaagta tttagttact
107821 cgtgatggaa actttctctt tttttatatt agagatgtta tctcactgca gactataagt
107881 taagacttgt agcacagcca ttctgataga ttttgttctc agaattcatt tatcctctaa
107941 aaagtattga ggatcccagg aagctttcat ttgtgtgggt tacatttact atatcaaaga
108001 atatatttac tatatcaaag aaatatttta aaaacattta aaatatttat ttgtttaaag
108061 caataataaa ctcaatacaa attaaataaa ttaactaatt ttaataaaat taattatatt
108121 ttcctatgga tctttttgccc atgcatgatt ttgccaggta atgcatcaat catttggaaa
108181 atatttaattc attgagtgaa tatttgacct ttcaaatgtt ggctatacaa tattttgaaa
108241 aatcacattt gttactatca ctgatctcat tagaaaagtc tttgaggcat tgggaagctg
108301 tctggtttac acaagcaggt acaagtttac caaaattcaa agtttttgctt gaaggttcaa
108361 atgttatttt cagcaacgaa taatgtttgt tattttcctt gaagtgacag gctctctatt
108421 tagtctcaag aaaaagtttg tcaaatagcc aaggctgaat aacaatagtt tgcagtcagt
108481 tgtcttttag ggaaaaaatg cttccatgca aaatagggct atttcagcct acaactcata
108541 gcaagtgtgt aagtattaga gtatactgta agtgcttcat gctcacaatt actacaaatg
108601 tcaacatggt aaagaaggca aataacgtct taatattatt taaaaaatag ttttgatctt
108661 atgctcctgc aaaaggatct tagagaagcc caggggtcca cagaccacac tttgagagcc
108721 gctgctctag ggtattctaa cattaaatta caagactcat tgaccccaca cagatgaaat
108781 ttacaacaat atggctttta attaatcaac tttttcctgca acttctaccc tatcaggaac
108841 aaataagcca agagcaaaat gttacaaaag attgtgataa ctgagtttaa gatcaatgta
108901 cgagaactgt cttatcaata tcacccataa ttattagtgt aaagaagtca caaaatgtct
108961 tttaaaaaat tctaccctga aaatatttca gaatgtaaga agtggcaata attataataa
109021 gtggctacaa actccacttt gaatgcattt tcagcagctt ttttcctaaa catttatcac
109081 gtattatttt attttaacat gtctctgtga tatgggtaca tggacttga tatcatctct
109141 gttttagaga tgaggaaact gagaaaaaaa tgactagatt cacccaccat tgcctaggaa
109201 actggcggtg gaactgggta gctctcctga tgaatatttc aatgccttt cttttcacc
```

FIGURE 1 (continued)

```
109261  ctgtggaatc acttggccag ccagactcag caaacacgtt tcatgtcaat aaaaagagaa
109321  tattccaatg agcccagtga ctttggaaat ccctaaagtg gagtgttcca agtaactgaa
109381  aacctggggg gaaagagtga cctctgtgag cttttccagc ttccacttct gctgatgggt
109441  ggaagttcat aggaaggaag acattctctt agcctgggct atgtcccttg ctaaatttag
109501  gattccagat tatagaaaca ccctcagatg accaagccct ccacccctga tgttctgggga
109561  gctctcattc tgaaagaaca aatgcatttt tccttcccct ttggaaccag atagtaaact
109621  tggccaagga gcctgccagc cactggcctg gtgtgagtga gtggggtgat tatttggaga
109681  tttaggcaga aagtgttgaa gggaaagagg ctgtgggtgg ggagggacaa tcagctaaag
109741  agatgggaag tatcatcctc ttgtcttgtt aaagcagaaa actgtttaaa atgtcatgcc
109801  catatttact agctgtttat aggtaacaga atctcctctg tgtgtcgtca gtgagtaatt
109861  gccataacaa tgttgtattt acatgaccca tattttaccc cacaaaggca gagaagatcc
109921  ttaaagaaat tgcatatacc tctatggtgt gtagagagaa acagctgctt tcctccctct
109981  tcctactcat atggctcttg aaaatgctct cagcctcttc ctttaataat ttccatcatg
110041  tcctcctctg cccttttagat tgtagcacaac gatttaaatg gaaggtgcag ggaagtgtct
110101  ctgagtggtt tgcctgactc aagccacctg gtgggcaagg ggcagcatct gagaggcttc
110161  cttccacagc ccgcctctta gggcccaaga gataacaaga ccacatgcag ctcagatgca
110221  atcacttctt aacatagctc agaggcaatc acttcttaac atttgagaaa acttgcctgg
110281  gtgaaaaacc attttcccag acagcaattt gcctaggagt tgcaatgaca ttgtctttct
110341  gtgccaagaa tatcaatcag ttcaaaagtc cctctcctga gagccactgg caagatcctg
110401  ggcgtgcaca cacaagcagt atctgtaacc ctgctgcttg gggttagtgt aaatgtcaag
110461  gctgtgtatt agaattaatt gttctgccac tatctgctct tcctttctct tttcctcctt
110521  ttgtataatc gtttgccttt tttttctctcc ctcgatcttg ttgtttctag cttattgtt
110581  ctcagtttag acttgtgagc ctttgggatg aaaagtgatg taaactcttg gagagggaag
110641  aaccctggat cataggccag aaggcctaag tcccagtaac actctcatcc gttagtccag
110701  tcacatcact aacctatctc cacctcagtt ttccatctca aactggagat aataatctgt
110761  atattgattg ctttttgaga cccttgtaag aatcaattgt tattatgtag cactattgaa
110821  catatgtact tactttcatt acagtaccta gaacaccagc tagtgcatag aagtgccca
110881  ataaacattt gttgaattga tgactatatt tggaaatatt ttgtaaacta tgaaatcact
110941  acacacatgt ttttatgaca ttttttcatag atgatgctac tagcctgcag tgctctaggc
111001  cttgggttgt gtcttgtcat gtcggctgtg taaacaggct ggctcctgcc atgccacagg
111061  tggctgggga tctctttcca ggccacagca tctacttggt ttctgtgatt ccaattcctg
111121  tgtggatctg acccactaac tagaagtttg cgctaagtga accttggtgt gtaaatgttg
111181  gtgctggagg gtgaatgtgg gtaccttgaa gccctggtct tataaatgag taacatgttt
111241  ctgtataaca tggaatgata cagatgatgg cattgagaat cctgctggtc tcggaaattt
111301  caagggagtt ctagaccaga tcaaacaaga gacaatggaa gataccagta tttggcaaag
111361  gaaagacatt tagaatttag aagtattcta aaggatgatt tctttttttt tttctttctt
111421  tcttttttttt tttttttttt tttggagaca gtctcactcc ttcacccagg ctggagtgca
111481  gtggcgtgat ctcagctcac tgcaaactct gtctcctggg ttcaagcgat tctcatgcct
111541  caatctccta agtagctggg attacagaca tgcgccacca cgccgggcta attttgtat
111601  ttttagtaga gatgggggatt caccatgttg gccacgctgg tctcaatctc ctgacctcag
111661  gtgatccacc tgcttttgcc tcccaaagtg ctgggattac aggtgtcagc aaccacagcc
111721  agctctaatg gatgatttct atttacatcc ttcttataga ctgagacaga tccccctaaa
111781  attcatgtgt tgggacccta gcctctgtat ttggagacag agtctgtgag gagatgttaa
111841  aggataaata aagtcataag gttagggtct taatccaatg aggctggtgt cctataaga
111901  agaaaaggag atactagatc tctctttctc cctccactct tgtcttctgc tccacaaagg
111961  aaatatcaat ggatattcct cacaagtcta aactgagaac agtaaagcta gaaacaacaa
112021  gatcgaggga aagaaaaggc aaaagattat acaaaaggag gaaaagagat aggaaaagca
112081  tagtggcaga acaattaatt ctaatacaca gccttgacat ggagcaagaa ggaggctgtc
112141  tgcaagccat gaagagagag gtcttaccag gaactgaatc ggcaccttg gtctgaaact
112201  tctagcttct agcttccaga actgtgtgaa aataaatgtc tgtgccttaa gctacccagc
112261  ctatggtatt tattatggca ggccaagctg actaatacaa ccctcacctc tctgtctctca
112321  tttctgggta gctatcctga aattcatgat tctgacattc tcctatatgc aaagaacatt
112381  gaagtctatg agcagactga atgtatatgt ctaaatatcc ttgtgaacta agcatgatgg
112441  aagagagag acaagaatag ccacaatcca ccatctcca ctgaatgaca agtcaaagat tgcaatgagc
112501  aactcttttta cctggcttgc ctgagataat tttgatacat tacactaagc ttcagagcag
112561  tgaaaggggtg taggttatgt caattagctt gtggactttt tgcaaaccat gtgattaagg
112621  ctggtgacat tctgcatcag gttttaacaa aacaaggttt ctaaagttag tttggataca
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FIGURE 1 (continued)

```
112681 ttgattttc ttacaccacc actgttgcta gttgggtata ttaagtgata ttatagcata
112741 cgtgcaaagg gaaatgatta tttgggacag tgaaaaaaac tgtatattca atgtgatgat
112801 agaacaagtg tgaaggctga gtttggcaat tttgggtttg atcctcaacc tctaattttt
112861 gcaagtttgg agccatgatc ttctaattat ttagcacaaa tgttgaagaa gttagacaca
112921 aatgagtcaa agttaatcta tcacattcat ttttaaactt tagtgtttct atgaatcatc
112981 tgaagagctt gttaagagcc agtgagtttt cgggtgagcc tcagattttg tatttctaac
113041 aagtttcagc tcatatcaat gctgctggtc catgaactgt acttggagta gcaaggatct
113101 agaatactgt gtgtcagatg gaaagatgag acatttagtt tttctccatg aataaaatac
113161 gtgagattca actgttgctt tgtttttgcaa tactatggga ttcctctcta aaaattgttc
113221 aaaatctcat gctttgaaga actacattat atggattgta aaatgactta agcaggaagt
113281 acttgacatg aatatgtgct taataaatat tgattggttg atttctgaaa agtagatctt
113341 cagagatgta aggcaaatgt cttccagtaa tataaaatga tacatcccta cttaggggat
113401 ctaggatgct atgcattgag acaagacaaa gtttatggtg tcagagccag agagaaagca
113461 agggtgatct gagcccagca acacagctcc attgtaaata gctgctcacc tggggcaaac
113521 aagtgctata ggatatgata aggaaggttc atttcatcat tttatggctg tgtacatcct
113581 ggagtgaagg aaaggcatta acgagtttgg taagagctgg caaagccaga gtcctattt
113641 gcaaggcatg gtaagcctat gggtgtgtta tcatttactt cattgtgatt tacgacagtc
113701 ctactgctga ttatacctct ctgacccct cagggttggt tggaagttgt ttagatccta
113761 ccttttctc tccagacacc agagactgcc agaaccacgc tcacctgtga gtgaaacaag
113821 caaattcct ggcatcaagg ggagttaaa acttctattt gaaacaactt tttgaacact
113881 tttggcatat gtggaaatgt acatatacac acacgcatat gtatgtggat tatgtaaggg
113941 gttataataa agtaaaatta agattcaaga gcattttga ctttaagaaa aatattcctg
114001 accatgcac tcttatgtaa cctgatccct cagaagcata caagataaat caaatttaca
114061 gagttacaaa aaagtgttca ctgactgctg gaaaatatat gatgtcatat ttgtggttaa
114121 tggcctaagt tagattaaaa agatgcactt tttgtattt tgatgatttg tcctttgttt
114181 tttctgtttt agttagactt gaccatggaa ttgatactct gtcaataaat tctttatctt
114241 tcactgttgc cactggtaag aatagctaaa ggttttgcag gataattgcc ttgaagaagg
114301 tatcttcaga atccatttat ttcaattatt tgccaatatt attcaaaatt tcttgtcttc
114361 ttatcactat caatgagtag aaatttcag gattgctaag agtttgttat gcttttgtggg
114421 agaaattctg ttaagattg agttttgaaa aaattccatg ttgcaatctc tggggaaatg
114481 cctgttcatg cctatatctg agcaaacttt gtaacttgtt tataaaggaa aaaagatttg
114541 aaatttaaaa tttggcaatt aggagcacat taactctcct tgtctacaat ttttatcgca
114601 ccataaaaat acactttaa gaaaaaaaat agcattcctt ttaaagtttt ctttcaaaag
114661 atatcccttt aggagatggg agttaaataa caaaatcaat tactctcttt gttgggtaag
114721 tcaaggactc cctaagccca aattttgagt gcctcttggc atcttgtat ataacaactg
114781 gaggttatcc acacattaat tgcctctaat actattcaaa tgcataatca aatccaacaa
114841 gtcatttctg cttaactgat gcaacacaga tgatgccatg cttcctgaga ctgaaaggtt
114901 tgctaaggaa attgcctcta aaattatggc aagtataaaa taaaggacta ttagaggaga
114961 taccacctta gctgctgtac ctagggatac tgataaagga tatatcacaa cactcattca
115021 taactgaaag gatattaaaa tccaaataaa gcaaaagacc aaagataact taagccatac
115081 cccaaaaagc taattaacta ataagttatt ttactgttta acagaatgaa gagattaatg
115141 gtagacaact ctttagctgg aatattggaa agacttacac aatgaaagca ataagtgaca
115201 tagatcttgc taaaaatcaa taaagcaagt aaagccagtt ggcacactat ttaacgtgaa
115261 tcaatgtgaa tgatatctca tcaaacttga ggtgtcattc aagaaggaat acttgctatt
115321 tctgtctcct aaatttccaa gaagacatta caagtgtcca aaatgagcac actcttaggt
115381 gaccctgata gaagtgcatt ttatatttac ttgtgaaacg tgccccaaaa gttaaagaaa
115441 ccaataactc atataaattc ttgggtttgc aggatgtcag attaaaaaca agaaacagct
115501 tcctgaaaca ctaaaactcc ctccacttgt aagacaacaa aactggctga aatcttttcg
115561 aaccgatacg gccagctgga gtttgcacag aacaagcttg ctgatgtcac agcctggatt
115621 tccactgcac gtttttatatt aactcctccc caaatttgca catgggacct ataaggaagc
115681 acaaagggat gactgtgcgt gcctgagggt ctttcagacc tctcctttcc tcccaccaat
115741 tacctgctaa tctcagaatc caccctctta aaccttttct agtaaaagta ttgccttaaa
115801 accagcacag agagatggat ctgagcttga ctcatatctc cttgtaagtc aacttgcaat
115861 aaatagcttt tctttctcaa aaacttggtg ttatattatt ggattctaga acattgggca
115921 gcaagttcct tttgcttgat agcacttttg tataaatgtg tatgtgtaag gatgcaatta
115981 acagcatcct tttaggtttc tgcatttata ttaggccaaa tcgatatacc ttttagatat
116041 tgctggactt ggattcaatt tgctttgttc tccatttcat ttactaaaat ctgggtctaa
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FIGURE 1 (continued)

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116101  tgtaagagtt  cttggtatat  tacataaaca  taaatcattg  ctgctgaagt  tctaatagga
116161  ctctgttgct  acttgcagaa  accagctttg  aggtagtcaa  ggaaagagga  taaagaaaag
116221  aacaaaactg  aggttttaat  ttcatacatg  atttgtgtct  ttgacagctgc ttttgtttca
116281  tacaaaacac  aaacgaaata  aaaatttagg  ttccatttct  gtcccttgcc  atgttaactg
116341  tccaatataa  aaagaattga  gcattatgaa  gtagggttct  gcagcttgct  agataataaa
116401  catattgaaa  gaagggttca  atttgggttg  gatgccaata  gtggtgaagc  atcctgcatg
116461  ttcacgttgg  ctctccagaa  ctttcaggac  ttgataattc  tgcaggaacg  caaggtgggg
116521  gcctgacttc  tcttaagcca  caccaatgcc  agttaaattt  gggattgaca  gaaaagtaga
116581  gaaagaatag  ttaagtttgc  atgaacttca  tttatgtctt  tttttttcatg tgtgtattca
116641  tgcagtgttc  actccctact  cactataagc  cacgtgctct  gcaagatact  agatatacaa
116701  agatgaataa  atttgtcctt  gaggaacaag  taattataaa  gttagaagat  aaagataaaa
116761  atatccaacc  tgtattgaaa  aagaagaaaa  agaagaagag  gaagaggaga  ggtagaggaa
116821  atcacctatg  aagaaactga  aatccaacta  acctcagagg  agttctttaa  aactctacat
116881  gccaaagaca  atgaagcaac  taacagaatt  atagggaaaa  agtttgtgac  caaactataa
116941  tctatgttta  ttctttgtgg  cgaggaccat  aaaatataac  cccacacact  caaaggaaaa
117001  aatgcttgaa  cacattctat  agcctgccaa  gattttcata  aaatgaagag  cttaaattga
117061  gttagaaaca  gactcccaat  gagcaatgaa  attagcaatt  tgaaagatgc  atgcaactgt
117121  caaaaaaggg  agagagaaga  tacataatga  aaaaataatc  acttttttcag taatatttat
117181  cagaccccct  cctatatgct  agacagcatt  ctagtcaatg  agattacaac  agtaaattaa
117241  acagacaaaa  attaagcaga  atgcaaagtc  tgcctttata  aagcctatat  tctacaggag
117301  aatcagaaaa  taaacaagat  acaaaaaatg  catagtatga  aatcacataa  tacctcaagt
117361  cttaatagca  aaaactagca  tatggatata  aaaggataga  aaaagtgagt  gaaaaaggga
117421  taaatatttt  agcttatgta  gaagaggaag  aaaagacttt  aatttccagg  aatttacaca
117481  cacatgtgca  cacacaaaat  gtagggtaga  aaaattattg  cttagacaaa  atagaagtca
117541  aagggaacag  cattaaatag  gacaaaaaga  ataactcata  ctactactac  taataataaa
117601  agtcaacaca  ttcaaagtcc  atcttcttat  tcttcatctg  actcagtttc  tgctcttgcc
117661  tctctaagtg  agggtattgt  cctactgccc  ccaaagccag  gccaaaaacc  tgggcatcat
117721  tctttactcc  tctgtccctg  cgcacaccca  atctaccgcc  cgtgacgttt  tgtttttcta
117781  cctcctaaat  acatctcaat  ccatctcctt  ccctttgtgc  tttctgacat  tttgctcatt
117841  tagaacacca  tcatctctta  cctggccttc  tacctcaacc  ctctaactgg  ctccctttgcc
117901  tcctgcttgt  tttcatcaaa  tctactatcc  atggggagct  ccaaactatc  tttcagtcta
117961  cccatctgat  tataacatta  ttctgtgtaa  aacacctttg  gcatcccatt  gtccagaact
118021  ccttaatgtc  acctctgta   gtttaactgt  tgattatctc  tccaggctgg  tatctcattt
118081  gttgcttttt  atatccagcc  acgtgagcat  ttgcaattcc  caaatactgg  gtcagccgct
118141  ttctcaccct  gagggtgttt  ccctctgcct  ggtacccgct  cttcttccgt  ctccctttgc
118201  ctggccaatt  cctattgagt  ttagcacca   cttctccttg  taaacctttc  ctcactctcc
118261  actctgccaa  atctggtcga  gttcctattc  tgagtgttcc  aatagaacct  tgaacttccc
118321  ctatccatagt actttccac   ttgattataa  cagcctgttg  atatgtctgg  agtccacacc
118381  agattgtaaa  ccccataaag  ctgtggacca  tatccccagg  acaaagatct  atccagaagg
118441  ggttttaata  ttaaatgaga  aatattattt  aaaaagaagt  aagaatgcaa  cctaagaatt
118501  tggaaaagag  aaaaataagc  caaaagaaat  catcagaagg  atttgaccaa  gattaaaaga
118561  aaataaaatca  gaaagtagaa  aaattgtatt  tctttgaaag  aaaacatgca  cataataaag
118621  tgcataaatc  tgtagcattt  tatatataat  caagagaagt  tgtatgcact  caattgaaaa
118681  atttatgaga  aatttatgag  aaaggacaac  agatatcaag  gatattacaa  attatgctta
118741  tgatttagaa  taattttaa   aatggcaaat  ttcctatcta  aacataaatg  atcaaaattg
118801  tcttaataat  taagaaatct  gaaatctcca  gtaactcaga  aagaatttga  aaagtactc
118861  aataattact  tcaaaaaatg  gatactaacc  tgggcaactt  tacagctttc  acattttcaa
118921  gaagcaggta  atttctttca  gataaattgt  tccgtgggat  aaaacaagat  gaaagaaatt
118981  atcaaattca  ttttatgaag  atgaaatgat  tctgtttcaa  aaagccaaat  aaataacaaa
119041  cacaaaactc  ttgaattgaa  tagtaatctt  attttgaat   acaactgcag  aaatccttaa
119101  aagaattaca  atttgaaaac  aatagcacct  tcataaatta  tccaccacat  ccaagtaggg
119161  ttattcctgg  aattcaagaa  tagctcaata  agagagaaat  aggttagcat  actacatcaa
119221  tggatctaaa  aagaaaaaaa  ttataaagct  cataaagtca  tttcaatgcc  atttggaata
119281  acaattctta  gaaaacttaa  acacaaatgg  catttattca  aattgtcagt  gatatctgat
119341  ggctaaagag  tagaggtact  ctctctcatt  aaaagcagga  acaagaccag  gaagtctaat
119401  atcaccatga  ctatttataa  gaatgctctg  aacatcagtt  tgtgcttgta  tttgaccaaa
119461  gtctgccaat  gtgttttttgc  tttgattttg  gctgtggaag  tctgaagaga  caaatgtctg
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FIGURE 1 (continued)

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119521 cttcaactgg ctttctagcg tccctgagat agttcctagt caaggatcat gtgactattt
119581 aggttaccat cacatgtaat cattaatgat tgggagttcc aatattaact gacagaccaa
119641 tagtctaagc cctataacat cttcattttt ataggtcaaa acaattgaat atcagctatt
119701 tcttatgact tagtctaaaa caaatattga gagagagtgt gtttgctaaa taactttaaa
119761 gaggacagta aatctctcta aagatatgtt ggaatgtctc agaataagc caggttgtta
119821 caaggtacac aataaagagg gatctgcttc tagtttcaac ttttcttatt catcctggat
119881 aaggtgctta ggaaccactg taacccactg taactcctct aaaaagctgg cacaggaaac
119941 aagacggctt ggccagtgca gtagctcacg cttgtaatcc cagcattttg agagcccaag
120001 gcaggaggat cattttagct caggagtttg agaccagctt aggcaacaaa gcgagagtcc
120061 catctctaca gaaaaataaa ataaaataaa tagccagaca tggtggtgca cgtctacagt
120121 cccagctact tgggaggctg aggcgggagg attgcttgag cccaggaggc cgaggctaca
120181 gtgagctatg attgcaccac tgcgctccag cgtgggcaac agagtgagat cttgtcaaac
120241 aaaacaaaac cgcaaaacaa acaaaagcac ccccgccccc taaaacccaa aaaagaccat
120301 taggcacctg aactcaaaat gtttaaaatg tttttcctca cctgcccacc tctaccctcc
120361 acagtgagcc atcaacctaa taacaagaca gagcaacaag gcctggggtc cctttgctgg
120421 agcacagtcc caaggtgcat ccgtctgtga cccaggtaag catgtgtctt cccaagaggc
120481 caaaagcatg gaaaccaaac tgcagacttt ctccctatga gctcccgcat gcaccaagtg
120541 atgctggctg aggttttctt gggtctgtga cacaacaata tccattttga accatccaag
120601 gtttataaaa aacattaata acaatataat agaaggatag aattagattg tatagtagta
120661 gtaatctttg tagaattgtt tgcatactag tactcattgt caaataaaat aatcattaag
120721 aaccatattt aatttgcagt taatgaactt tacttaagct gtgactattt caggagtaat
120781 ggtcctgctt ggaaattctt cacattctgt acagacgtat taaaggcaga atagcacatt
120841 atcacctcaa attttcatga ggaggtaaaa ctaaaatcat gtacaacaat ctcaatgaca
120901 tatcgatata atgaagagta tgaaaaagag taagagaaaa atgaggaacc aaaaacacat
120961 ttgatgttgc taatctaatt tcaaaatagc agacttaaca aacttactct aagaaaataa
121021 tcctatatat ctgagtctcc aaggccagat atatttaaaa gcctgttgaa atgatttatg
121081 caaactgaca attgaagcag ttgaagatga aggagtattc agatttcac agtctgtgat
121141 gcctaggtac aaatctcttc tttgtatgca ttttactaga aaaatttcct aaattccatt
121201 ctgctgggca caaaaagtta ttgacaaact aaatgtgccc tttctgcatc ttgtgtatca
121261 gttgttggga caagcaggac ccaccagaag tcctttaaat ttaataggat tcatggtgag
121321 tttatgctga atttgctaga tttctcttt acatgcttaa tgagggattt tggggataca
121381 agctaacaaa ataatgagtc tggctgtgga aatatctgta gaatgatgaa tcagtaaaga
121441 caattacaat caacaatgag tacacatgat gaaggcctca agtcgatttag gaattgtaaa
121501 tatacactat tttaatcata gtttccagtt gtgtttggaa aataattatg acacagtgta
121561 ttttaacaga attacctatc ttaagaaaga ttacaggact cttcatttct tactctttga
121621 ttgaagacaa actacacgga gtataagagg ttttggaacc ggtttgtcat gcttataaaa
121681 gataaggaag cccctctcac atgtaaaaag gctgctcgaa caaaataaag cctcaatatt
121741 ctatgctgca gataatagtc ccagtcgtcc cagtctagca gggcgtatta cccaccaact
121801 attttttcag agaaagtagt ttgttctttg caaactgctc aagtaataat caaactgagg
121861 agtgcaaaat aattctgaca tatttgcaca tgaggagtgc aaataattct gacacgatta
121921 ctactattaa aatactccta tcaccctgct ttggaagaaa tgctgcaatt agtatacaga
121981 cagtgtatac taattagtat aattgcaagc ggaggtgcag agggaaaatc agaccttatt
122041 cttttatttg aaaagctggc tgggtgtgga ggctcatgcc tgtaatccca gcaccgagag
122101 gccaaagccg gaagatcatc tgaggccagg agttcgagac cagctgggc aacatagtga
122161 gacctccatc tttaaaaaaa aaaaaattag ctggtgtggc ggtacatgcc tataatccca
122221 gctactcagg agactgagca gggaggatgg cttgagcctg ggaggtcaag gctgccagtg
122281 agctgtgatt gcaccaccac attccagcct gggtttcgga gtgagatcat gtctcaaaaa
122341 aaaaaaaaaa aaaaaaagcc aattacattc agtcgcaaca tttctagatc aaaggtttga
122401 ggacatattt tcatcaaagg atttatttaa atgtgaaata tactagacat caaagtataa
122461 gtgaaggtga aaatccaaag cgtgattctg aaagtattcg gaaagcatct cctttcaacg
122521 tgtgtgaacc ttacattggt gaggctgtat cagtggaact gcatcatcac cattgaccaa
122581 atcttcaagg ctagcagttt aaaacaaagt gtctttccct tctttggtac tgctagaagg
122641 aaaggaaagc ccactgacaa catctctatc tctatcagca gtgcctatct tgatagagct
122701 agacaagaca gctccctaac accatgatga aactgagcat tcattcaaca tcatctgtgt
122761 gcagcatggt acccacagga gcaatctagt gactaacagg ggccatggaat ttcctgtcct
122821 cagccataac atcaaattta aaaaattaaa ctactaaaaa tgttaatgac atttataatg
122881 atcactataa ttcataatat aattatgata aatttgggt taattatata ttcctgtcat
```

FIGURE 1 (continued)

```
122941 ttattttatg ttgacaatac atggtgttgg ctaaatatta attcttaaca tttggccttt
123001 ctgtatttct ttaaattgta tggtcactgt ccttttactt aatagtatcc tgaaaatact
123061 ggctaatgca ttaaatcatg aaatagaaat gaagtataat tccttaagga gaggacataa
123121 aattaatact atttacagat gacacaaata taatgctagg aaacctataa gcatcaactg
123181 gaatagtttt agaattaatg agcattcatt agcaacctaa aatgttagca gcatagagat
123241 ttaaagtaag atttaaataa ttaataatat taaataataa aaaataagat ttaaataatt
123301 agaaagatta ttataaaaag aaagaacttt tactagtgaa aaaaattggc actgtaaaga
123361 tgtaaaaact tcttaattaa tttgttggtt taacaaactc ctggtcagat ttccagcaga
123421 atttatttta gagcttaaat atcaaaatat catctagaga aataagtggg taaaagtggc
123481 taatttttaa aaatcaaagt gatggaaaga aaattaatct ttcagataga cactatatta
123541 caaagtaaca ttaagtaaaa tggtacgatt ttactgaaag aaaaggaaag atagctctca
123601 aacaaaatag atagaaatat attacaaact tatggagaag ggaaggaatt tgttgtaaat
123661 accttaagga taattagttc tttagggaga aacaatcaag aacctcctct ctttcatcta
123721 ccattagttg agttaatatt taataagagc ttctagtagt gcctgacaca aatatgcttt
123781 atataggtat ttattaaata aagaaaacaa ataagatacc aagataaatc taaaaacttt
123841 aaagtaaaat aattaaccct atagaaataa atactggtga cttgagaatt tctctacaaa
123901 aaaaggtaaa aattgattta tttagtacat ttgttccatg ccggaaacaa aatagaaagc
123961 aaacaaacat ctgggtaaaa tatttcttag caaacatggt agacaaatat ataaaaaact
124021 cttaaaaaac aataagaaaa ttagtaagag ttcttgttaa gtaaagaaca cagacaagtg
124081 acaaaaatat gacattctga tagatttatg ataataatac ttattcaagg tcataccatt
124141 tttaaaaatt ggtgaagact tcaaataatc tccatgtttt agaatactgt taaaatttta
124201 aaatcaaaag taaggagctc atggttaaaa ggatctcata atgaaaatca agcttcttgc
124261 cttctcctcc ctactctgag ttcaattctc tgaaagcaag cacttaactt tgttgcttct
124321 tatatttacc ttcatgtctg tgagtggtaa acataaactg ctttttcctgt tttatcagtt
124381 ttatacctta gatattgatt tctgcagtaa caaatgaaat ttcagctctc agtgcatacc
124441 ttcctctttt tcccattcta cccatgtaat tatatcactt tcaaatcact gatgtcatat
124501 aaccacataa atattgttcc ctgcgaaact cactaatgtt ttacgattat atgcctttta
124561 ctgtcttttg cccccctgtc cctctggagt ttctgattgc ctttattttt ttatagcact
124621 aattgccttt atcatattgt tttttttcaaa ctcttgatta tatcaggtgt gttagcaaat
124681 tatctcctgg acttagacca ctgttccata aacctagatc tttccaac aatcttggct
124741 acttgctctg caaagatttg ttgaaatgct gtatgaaaag agggagtggt gagacactca
124801 aacagtgctg gtagagtata aattgttaca accaccctag aaagcaagtt gtcactatat
124861 gacaaaagct ataaacattc aaagactttg accctacttt tcacttctag aaattgcttc
124921 taagaaaata atcagaaatg tcattcagat ttgtgtgcaa agatgataac tgtaatgatg
124981 tttatgtgaa aaagtggaag taacttgagt gcccagttat ttgtgagtcg ttagtagatt
125041 gtggagtact ctagattcat taaaattcat tggtagagca cttttgaaat ctgcttcagg
125101 gaaacacctc gaagagaaaa gtagctatct tcaagcgact aaaactgaag tataataaga
125161 gaaccatgtg attcaagcaa gtccacaaca gagccaacag agtctgcttt caaaggaatc
125221 tgcaaattga aggatacaaa caggtacgct ccgaaatctc aagggtggaa ttaattgctg
125281 tagtgtgcct gtgcacatgg gcaaccctat gtagcatgca tgttccagat gggtaacagg
125341 tgcttgattt tttaatgtaa tgatggttgt gctgctccca agcaatgaga aagaggcag
125401 ctgtgatga atgggcgtag ggaataggta aggatgtgaa actgacaagg aaggaagcg
125461 gtgttattaa ataaaggctg aatattcaca cagggagac agaacacttc ccctaatgct
125521 aaggtgctga ggaaaggctg tgtgggagat gagtagatgc acgttgagaa ttatgagggg
125581 aattacgtca tcagggaaa tccaggtttc acctgggatg aggcggcggc gcatgtattt
125641 aaagaacaga ttgcaaattt ctgagctcct tggcagcaga gcagggtttc cagaagacat
125701 atggttacag ttaaaggaag ggtcaaaagg gaggatgt gtcacagaaa ggtcaggctg
125761 ctctcaatgg aatggagact tatagacatg gagagagggg tcgccagaat tagtcccta
125821 gataactagg gaggagaaat tctgggagtt gagggggtaca gagcaaaggc atcaacagaa
125881 caaatgggac agaactggca gccccagcat ttcaaatgaa acttcggaat gaactaggga
125941 agataccctc acaaactatt gtttcaacta tctcaggtac acctaattgc cataggccta
126001 tcagcattt tgaggttgac ttcatgcaca aatatttttg ggaaaacctg atggctaagt
126061 aatttgaata aacgccttga agggaatgaa gtggtaggga agatggattt ggaattatct
126121 gttcctttt tgtaaaagca tagatgagag aggctttggg gtacaccaac aaaagacaga
126181 aaatgcagta ttagctcaag aaacctgggc caggttgttt gccttgaggg agcaagaggc
126241 ttgtgtggga gccttccggg actgtgtgaa atcttggctg agtttttgagt caaggtcgac
126301 cagatgcagg tctggcttcc cagagagtag atctctcactcc cttgctgaag cacaaaatctg
```

FIGURE 1 (continued)

```
126361 ctgggagtgg cgctgacttt ggactcgagg aagagtgaga gtaaattagt aaacaaacta
126421 aaataggaaa taaaaatgat ttatggtttg taagtagaca cataaaaatt ttcaaggccg
126481 ggtacggcag ctcatgcctg taatcccagc actttgggag gccaaggcgg gtggatcacc
126541 agagattagg aggtcgaaac cagcctgacc aacatagtga aaccctgtct ctactaaaaa
126601 tataaaaatt agccgggcgt ggttgtcggc acctgtaatc ccagttactt gggaggctga
126661 ggcaagagaa tcgcttaaac ctgggagggg gaggttgcag tgagccgaga ttgcgccatt
126721 gcactccagt ctgggtgata aaagcaaaac cctgtttaaa aaaaaaaaaa aaaaaaattc
126781 aattaaccac ttgacagtgt tttactctcc cagttctcca aatgtttatg tttaacctag
126841 ggcacaattc aaagtgggtg gtgttgtgga agctgagtgt ttacatgtgc tttcttattt
126901 ctgggtaatt ataaggagtc aatgtgcaca tttttctttag agcaggacac ataactgtga
126961 agacagctct atcatcttaa aaatatttgc attttaaata ttttattggc ccaaattttg
127021 agaaatggaa cacacagata aaagaaaatg tattgaatat tctgacagac aaagaagatt
127081 cagggaatct caaatacttt taagccagct tgtgatctca ttccagattt ctaggtagct
127141 gcacttgagt ttccaaattt cacctgctaa atgtacaatt ttgggtaaat ataggggaaca
127201 ctgtccagtc ttcaaaagca gtagaagcaa cttcgttgag gagttagcat aaaaagaatc
127261 tgttacaaaa agtgggtgta caaatgcaaa tttttgatgg agaataaaaa ttcacccaag
127321 atctggtttt tagcttggct ttcacacagg gtactaggca ttcacagacc agcctcattt
127381 ttcattcctt tgacataaac tagccccacc agtttgggtt tgtagagaga cttctatctt
127441 cctaatactc atttattgac ttccatcatc agagttctca cggaaaaacc tttcaccacc
127501 ataaatcaac ttggatgtta ttgatacttg gcctggagtt acacaaacac aatgagatcg
127561 tggaagagag ggttaaatgg attattctgg acatctttca tgaaaattga ggctcctcac
127621 atttctctcc tgtgtttttct ttttctgagt ggcttcttaa tttcagtatc attttcttta
127681 tcctttctgg ttccttgtta aaaaaaagaa aggaatgtgt ttcctgaaaa ctgtctttgt
127741 caactaacct ttgcatttta agtgatactt ctgttgtctt gatttctaaa gatcacgaag
127801 gtctagcttt cctaaaactt gtttgagttc atgaattgtt attttgaacc tcactgaaat
127861 gtttaaaatt atttccattg agaaaaaaat ttcattctac caatacaact attttatct
127921 gtaatactca aggagtttg ctgagtgaag aatgaagagt aattcctaat ataaaattaa
127981 taggcatgta agctttcata atagtacgaa tattctcatt tttcctatgg gtaggtcttt
128041 gctcatcaag atcccaatgg ctctagtaag agaagaaatc caggcacctg aagcagtaca
128101 gatggtagca aggttgtga ctaggagctt ggagtctaag agagagcaac tctggcttga
128161 atctttagct acaataactg tatagacatg aaatataagtt cttaacctct ctgattttca
128221 gtgtttatag gtgactaaag taggtatgga aaagtgggtt tcagataatg gttctgaagg
128281 acagaataat cattttttcca aaaataatag gagcagatat ataagagaat attatttgaa
128341 tttttgttt aaatctagta agtgggttgg aagggaaaga attgagaga gagtgctcta
128401 gaccaggggt gtccaatctt ttggcttcct tgagccacat aggaagagga agaattgttt
128461 tgggccacac ataaaacaca ctaacactaa cgatagctga ggagctaaaa aaaattgcaa
128521 aaaaactcaa tgttttaaga aagtctatga atttgtgttg ggccacattc aaagccatcc
128581 tggaccacat gctgcccatg ggccatgggt tgaacaagtt tgctctagac agaaggcgtg
128641 gcatgaagat attctcagag ccagaagatg gggagaacta agagagcaat actgggcagt
128701 aggaggagat gaagaaagca aaagatgact aagacagtcc tctctgcccca caaattcata
128761 atattaataa tggatctttt ttactagaat ttgatatcac aggtcacttg atttcttaat
128821 tgggggatttc ttttatgagc catatcctcc actttgctgt tccctctcta tttatttgaa
128881 gagacaagtc caacacataa aagagaataa aggtctacac catttagcct gatgttaagt
128941 gcaaaaggat tgcagagtca gagatgaata tgggatggag tatggctgca ggctccaagg
129001 atgaaatcag ggtttgaaga agtttccgaa atgccagcaag caagtggagg tcttgttgtt
129061 agctttgaca ggttgtagac agctttgtac tatacctgtc caatgccaag cgatatgtgc
129121 ctgatatgta ataatttctg aatttgttaa gggaatgaaa ataagaatct acctgctatg
129181 ggctgaactg tgtcctcttc ctcctcaaat tcatttgttg aagggttaac tcccagcacc
129241 tcagaatgcc actacatttg agataggtgtg tttaaagaag taattaaggt aaaatggggt
129301 tatcagggtg tggtctaacc cagtgactag tgtcctcata ataagaggag tttatgacac
129361 agacagaaag acaccagaca tgtgcatgca cagaggggttg ccctgtgaa gatagaggga
129421 gttggtggcc ttctacaagc taaggaagga gacttcagaa aaataaccct gctgggcatct
129481 tgatcctggg cttctatgct ctagaattgt aagaaagtac actctgttgt tgaagacacc
129541 cagtctgtaa tttattgtta cggcagccct aataaactca cacacgatcc attttgtttt
129601 actttcccct caaataacaa tgatgtctta gttatatgtg ttgtttagtc ccatggtagt
129661 aactcatttt ttaccagtcc taaatgactt atttagggag agaggagaaa ataaatttgg
129721 agaaatgcag aacatacatg aatgggggaac agaaacaaaa gtatacatga aaaagtctac
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FIGURE 1 (continued)

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129781  agttgcgatg gtgcaaggct accctggtta agttgaggga acccttccct tatttcccaa
129841  tgactcagag actggtcact gcttgacaaa gtttctccct agagaagtca ctagtattag
129901  aagaggacac agaaaccagg gccaccctct taagtcattg tttcagagat aagccagtgt
129961  gggggaagat gtgatgaggc atagaagctg gaatttgagc cttggttagg taactgagga
130021  gaccatagga attgcttggg tggggaaaaa ttaattacgt gattttgctt cacactttga
130081  tacatgcaaa ataagtttag aacaaacatc aaggaagaaa gaggagctaa taatgattga
130141  gtcatacctt ttaaggaata tgtgtcaaag atagccttga aagagaaaag aagtgggaa
130201  gatactccag aaactcaaaa tggaatgtca ggtgtgggca aaaagagttt gagataacag
130261  ggaaagggtt tagagcagag caggagggaa gaacacagtg ggaccggtgc tattccaggt
130321  gctaatcaat gccctggaac tgctcttact gatctaatgg ggatccaggc aggaaagaca
130381  cagtccttct tctccaaaat ctcccagccc agtgatgagc actaagtaaa ttgtgacgac
130441  tctacagact tgcaagtgct aaggtgggaa cccatggtgt gcactgggag cacagaggag
130501  ggacctcttg cctggtgcta agggaaggg gtcagaggag accccccag gaaaggtgac
130561  aactaagcag agtcctgatt gagagtgggg gctaggccag caaagagatg tgtggaaatg
130621  catttcaggc ctgcagaaag tttgtgagat gggagagcat gactcattcg tcaaaccaca
130681  ggaaggtatt atggctggag tagaattttt ctgaaatgcg gtcttttctc agtggtaggg
130741  aagaagggca aagggagaga tgtatagtgt ctctctcaga acttaaaaat tctttttgt
130801  taatgcaatt aatatgtgtg taccatgaat cacctggatg atttgcatat attcaggagt
130861  gattatagta aagaagaatt taggacaaca ccaaatccag caatatattg ttaaaatgtt
130921  gttttgaatt aatgcataat tgtacatgca ggtatacctc attttattgt gctctccttt
130981  attgcccttc gcagatattg tatttttat aagttgaagg tttgtagcaa ccttgcattg
131041  agcaagtcta ttggcaccat tttccaaca gaagtgctca cttcttatct ctgtgtcaca
131101  ttttgtaat tcttccagca tttcaaactt tataattatt attattctgt tatggtgacc
131161  tgtgatcagt gatctttgat gttactatta taattgctat ggtttaaagg tccctgtagc
131221  ccatggatca aggagtaatt ttgactttca agccttataa tttaagaaac tcaagttagc
131281  acatgaatta taagaaagca aaatgccaga ttgttgatat ggagaaagtt ttagtagtct
131341  gggtagaaga acaaaccagg cacagcattt ccttaagcca aaatctaatc cagagcaagg
131401  ccctaactat tcgattctat gaaggctgag agaggtgagg aagctgcaga agacaagttt
131461  gacactagca gaggttggtt catgaggttt aaggaaagaa gctatctcca taacataaaa
131521  gtgcaaggtg aagcagcaag cgttaatgta gaagctacag caaattatcc agagatctac
131581  ttaagatcat tggggaaggt ggttgcacta aacaacagat cttcactgta gataaaacag
131641  ccttctattg gaagaagatg ctatctagga ctttcatact agagagaagt caatgcctgg
131701  cttcaaagct tcaaaggaca ggttgacact cttgtcagag acaaatgcag ctggtaactt
131761  tatgttgaag ccaatgccta tttaccattc caaaaatcct agggcctta agaattatgc
131821  taaaagctgc tcttcttgtg ccacataaat ggaacaacaa agcctggatg acagtacatc
131881  tatttacagc attatttact gaatattta agctcaccgt ttagacctat tttttttaaa
131941  tggctttcaa aatactacta ctcattgaca atgtacctgg ttacccaaga gttctgatga
132001  ggatgtacaa agagattaat gttttcctac ctgctaacac aacatccatt ctgtagccca
132061  tggatcaagg agtaattttg actttcaagc cttataattt aagaaactca ttttataatg
132121  ccatagcttc catagacagc gattcctctg atggatctgg gcaaagtgaa tggaaagcct
132181  tctggaaagg attaaccatt ctagatgcag aataatccca tttaactact tttctttttg
132241  ttgcatatgc ttttgaggtc tgaaaaatcc ttgcccagac aaatatcaca aaatgttttc
132301  cctatgtttt cttctagtag attatctttt ttaggtctta catttaagta tttaatccat
132361  tttgagttaa tatttgtaat gatgagagat agaggtctag ttttactttt ctgtatgtgg
132421  atatccagtt ttcctggcac catttgttga agagattgtc cttttctcaa tatgtgttct
132481  tggcacctt gtcaaaaatt agttggctgt aaatgtgtgg atttatttct gtatcctcta
132541  tcctgttcca ttggtctatg tgtctatttt tatgccagta ccatgctgtt ttggttacta
132601  tagacttgta gtacattttg aagtcaggta gtgtgatgcc tccagcttta ttcttttttgc
132661  tcaaaattgc tttggctatt tggagccttt tctggtttca tatgaatttt aggatcaact
132721  ttttctattc ctgtgaaata taattttgtg aaaaatatca ttggtatttt gataggggatt
132781  gtattgaatc tatagatgac tttgagtagt atggacattt taacaatatt aattcttcca
132841  atccacgaac atgagaccgc tttcattta tttgtgtcct cttcaattcc tatcatcaat
132901  attttacagg ttttattgta aagagttttc acttccctgg ttaaatttat tgctgggtat
132961  cttaattttt gtagctagca taatgagat tgcttccttt ctttcttttt tagggagttc
133021  tttatagttt tatagaaatg ctactgattt ttgcatgttg aattttgcat cctgaaactt
133081  aaatgaatta gtttatcagt tctaaaagtt ttttggatag agtctttagg ttttctcata
133141  tgcaagttca tatcattggc agacagacac agtttgactt cctctttttc aatttgaatg
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<p align="center">FIGURE 1 (continued)</p>

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133201  acctttcttt  ctcttgccta  attgtacttg  ccaggacttc  cattactgtt  tttaatgaaa
133261  gtgccgaaag  tgggcatctt  tgtcgtttc  cagatcttag  agaagagctt  taaactttc
133321  ctcctttagc  atgatttaac  tgtgggtttg  tcatatatgg  cctttattgt  gttgaggtct
133381  gttatttcta  tttgttgaga  gttttatta  tgatgagatg  ttgaatttca  tcaaatgctt
133441  tttctgcatc  aattgaaatg  attatatggt  ttttgtcctt  gattctataa  tgtttattga
133501  tttaggtatg  ctgaaccatc  cttgagtcca  tgaaataaat  ctcacataat  catgataagt
133561  gatctttta  atgtgctgtt  gaattcagct  tgctagtatt  ttgttaactt  tttttttgcat
133621  ccatgttcat  cagggagatt  ggcctgtagt  ttctttttt  ggttatgttc  ttctctggtg
133681  ttagtatctg  ggtaatgctg  gctttataaa  attaatttgg  aagaattacc  tcctttcaa
133741  tttttggag  taatttgaaa  agaattgatg  ttcatttaaa  aaaaatgttt  ggtataatac
133801  agcagtgaag  ccacttggtc  cggggcttt  ctttgatggg  agatgtttta  ttattgattt
133861  aatcttgtta  tttattattg  ttctgctctg  ttttctgttt  cttcataatt  caattttggt
133921  agcatatgta  cctagaaact  taaccatttc  ttctagattt  agcttttcat  aaaagtcact
133981  tatgatcctt  tgtatttcta  ggatcagttc  taatgtctct  tttttcactg  ctgactttat
134041  gtatttggct  tttatctta  tttcatagtt  agtctggcta  aagattggtt  gattttgttt
134101  atcttttcag  aagaacaatt  attggttatg  ttgatctttt  taatttttt  ctctattttg
134161  tttattgttg  ctctgatcct  tattatttat  tccctcctac  caattttggc  tttggtttgt
134221  tcttgttttt  ctagtttctt  gaggtacaat  gttaggtttt  tatctgagat  tttctcattt
134281  tgttcatata  gatgttaatt  gctatatact  tccctcttag  aattgttttt  gctgtatccc
134341  ataggttttg  gtatattgta  tttccattt  catttgtatt  aaattatttt  taaatttcct
134401  ttttaatttc  tttattgacc  cattggtctt  tctggagcat  gtttaatttc  tatatatttg
134461  tatgtttcc  aaaattctc  ctgttactga  tttctaattt  tcttccactg  tggtctgaaa
134521  agttacttga  cataattttg  atttaaaaat  tttttttgac  acttggcttg  tggcctaaca
134581  tatgatctat  cctgagaagg  tttcatgtgc  tgttgcgaag  aatgtgtatt  ctgtagcggt
134641  tgggtggaat  gttccgtaat  gactgttagg  tacatttggt  ttagagtgca  gtttaaatat
134701  gatgtttctt  tgttgatttt  ctgtctggat  gatctgtcca  ttgctgaaag  cagggtgttg
134761  aagtcctcta  ctatcattgt  attgaggtct  ctccctccct  ttagatctaa  taatatttgc
134821  tttacgcatt  tgggtgctca  actgctagtt  tcacatatat  ttacaattgt  catatgtact
134881  actcctgctc  tcttttggtt  tctctttgca  tggaatatga  gcttccatcc  tttcactttc
134941  agtttatgta  tgttcttaca  ggttaagtaa  gtctctcaca  ggcaacacat  acttgttttt
135001  ttttttaaact  ctatttagcc  acttatata  cttaattat  gaaatttaat  ccatttacat
135061  tcaagattat  tattgatatg  taaagactta  ctcctgctat  tttattaatt  gttttccggt
135121  tgtttttgtt  atcttctgtc  tctttcttcc  tctcttatgg  ctacattat  gtttgggtga
135181  ttttctgtag  taataaactt  tgatttcttt  ctctttctca  tttgtgtatc  tgcagtaata
135241  tttttctttg  cagtatttct  ggggcttaca  taaaatattg  tatagttata  atagactatt
135301  tttagctgat  aataataaac  tttggttgca  tacaaatatt  ctagacttttt  actatcccttt
135361  ctaaaatttt  taattttgct  gcttaattta  catcttttta  tattgtgtgt  tccctaacaa
135421  cttattgtag  ctagacttat  catcgaccat  gttgacttt  taacttcaca  gtagagatat
135481  gaaagattat  gtaccaacat  tatggtaatg  aagtattttg  aatgtgataa  taaatttacc
135541  tctaccagtg  agattagact  ttcatatgtt  ttatgatagt  aattattgtc  cttttgcttc
135601  caattggaat  acttccttaa  acatttttg  taaggctggt  ctagcggtga  tgaattccct
135661  cagcttttgc  ttgtctgaga  aaaaatgtat  ttctccttca  tttctgaaga  tagctttcct
135721  gagcataata  ttatacatga  cattgtaatg  acactttgaa  tgtattatct  cattttcttc
135781  tggcttgtaa  ggtttctttt  gagaaatctg  ctaatagtct  aatagaaatt  cttgtgtatg
135841  tgacttgata  tttttctcaa  aaagcccca  aatccaaaaa  cttttttta  agaatgtcat
135901  aaatgactaa  gctagaaaga  gagagaagg  tgaagttgga  gaaatgcagg  acaatacata
135961  gttgggagaac  agaaacaaaa  gtctacataa  aaaatacagt  tgagatggtg  taaggctacc
136021  ataatgtaag  gttaagggaa  tcctctcttt  ctttttcagt  gactcagaga  ctggtcactg
136081  cttgataaaa  ttttttttct  agataattca  ctagtattag  aagagaacac  agaaaccagg
136141  gctacctttt  taactcattg  tttcagatat  agggtgagga  gtggtgtgat  gaggcagaga
136201  agctggaatt  tgagctttgg  ttaggaaaat  aaagagacca  taggaagagc  tggagtgagg
136261  aaaaattaat  tatgcgactt  cttctcacac  ttacatacat  gcaaaataag  tttacataat
136321  aattattgag  tcatactctt  ttttttttt  ttttttttt  gagacagagt  ttctctcttg
136381  tcgcccagctg  tggagtgcaa  aggtgtgatc  ttggttcact  gcaacctgca  cctccttcat
136441  tcaagcaatt  ctcctacctc  agcctccgga  gtagctggga  ttgcaggcat  gcgccactat
136501  gcccagctaa  ttttttttt  ttttgtattt  ttagttgaga  tggggtttca  ccatgttggc
136561  caagctggcc  ttgaactcct  gacctccggt  gatccacccg  cctcggcctc  ccaaaatgct
```

FIGURE 1 (continued)

```
136621 aggattatag gcatgggcca ctgcgcccag ctgagtcata ctctttaagg aatatgtgtg
136681 tcaaagatag ccttgaaaga gaaaagaagt ggagaagata ctccaaaaac tcaaaatgga
136741 atgtcaggtg tggacagaaa gagtttggga taacaggtaa agtgtttaga gcagagcagg
136801 agggaagaac acatgggact ggtgctattc caggtgttaa tcaatgtcct ggaactgctg
136861 tcactgatct aatggggatc taggcaggaa agacacagtc cctcttcctcc aaaatctccc
136921 agcccagtga tgagcactaa gtaaattgtg acgactctac agacttgcag gtgctaaggt
136981 gggaacccat ggtgtgcact gggagcacag aggagggacc tcttgcccgg tgctaaggga
137041 aagggggtca gaggaggcct ccccaggaaa ggtgacatcc aatccaagtc ctgatagaga
137101 gtggggggcta ggccagcaaa gagatgtgtg gaaatgcatt tcaggcccgt ggaaagtttg
137161 tgagatggga gagcatgact cattcatgga accgcaggta ggtattatgg ctaggatagg
137221 ataattttc tgaaatgtgg tcttttctca gtgatatggga ggaagggcaa agggagagat
137281 gcacagtgtc tctctcagaa cttaaaaatt ttaataggc aatgaatgta tttgtatata
137341 tactctaaat catttggatg atttacatat attcaagagc tataacagta aagaaaattt
137401 aagacaatac caaattcagc aattttttt tccttttaaa aggatatatt taaacactga
137461 tgagagatgc actagaattg taggcaggac ttttttttt tttttttt ttcagttatg
137521 gtttacctgc aaagttccta gtcctaacag tagttcagga atccacagat gtctgaagtg
137581 tgagctagca ccccaattca tctgaccata ggaaaggctt tagtggactc atacaattca
137641 agtgagactc tggcactgtc tttgagtttc agtaagtgcc tttccttttca gagatactgg
137701 agaattagaa ctgtgtagaa agtcttccag cgtacaatat agaagcacaa atagagccat
137761 tgaccttaat gggacatttg aggaggtcat acaataaaac agcagtctct gttaagaaat
137821 aacactaatg ggcctgggg tgctaaatag agggtggatt attttcttac ccatatattg
137881 tacttggctt ccacgtcatc tggaagaaat ttcatctgtt atcttcactt ggtcttcatt
137941 cttattttaa aaaaccttct cttcagagca gagcaggtat ctggtgaatt atcactgtga
138001 ctaaacaaat tgtcctttgc ccagtgattt ttaaatatgt acactaccca ccatggaatt
138061 tactaggcca gctaaaactt gagtaggaga tataactaat tctaatggat tttattttga
138121 tgtagataag tactacaatt tagaaaagca taaggcaatt agcaacttaa gaccttgcta
138181 ataaaatgct atttcacttt ctggcagaga gtgcaataga cagagatcaa ttctaagagt
138241 aaattggttg aatattagtg cagagccctg tgatgccatc aaaacatatt aggcatattt
138301 actatatcat ggaaagtcct cagtaatagc acatacctcc ctgatggaaa aagtggccat
138361 ttattttaa aacttttatt tatctcagct caaattttta gatatgtttc tcccccaatt
138421 agaatatgag aatagggact gtattgtttta caactaactg tattgccagc atctagaaca
138481 ctacctggtc tgtaataggc tctccataaa tattttcaga ataaattaga atcatctaca
138541 cacctacttt gacatacact gtctggtgct ttcagatctg tctcactcaa ttttgtcag
138601 agctagtcag acgtcccatt ggtccaatgt ggaagctgag atcagagcta actgtccgag
138661 gacaaatagc tagcaagtgt cagatgtggg attcagccca agccttctaa cttcactctc
138721 aagaatgttt tcttgtctac cttggattta aggaacaatt ctggttcttt gctgagagga
138781 ctgggtactg gctgctagaa agcttttttga attatttctt ccttctcctt ccttccttcc
138841 ttccttcctt ccttccttgc tccttccttc cctccctccc tccctccctc ccttccttcc
138901 ttccttcttt tccccaaaag accctgata tgaactagat aggttactag tggatttcct
138961 tccagatttc aatgtttact gatataccaa gacattatgc aacctcaaaa cacttctaac
139021 ccaagagcac tctaatggt acccacgggg gtccctcagg actctggctc ataaatgggc
139081 tgtcaggcct cagagccctc agttggccgc ttggggctct tccctcatag acatgcttcc
139141 ttgtgtcaca tggacagaca gaaagtactg tcttgatgag tcatttttgg ctctgaagct
139201 acttgtcact caggaggcag gagagggatg tgatagaatc tttgcctgaa ttcttgaagg
139261 gagaggcttg gcctggttac acatatttct tttgttacaa aatcctcatt aaaatagaca
139321 cctttactt gacccagcag atctgtagtt gtttattttc tctctattgt aaccaaaatt
139381 taatttttcc ccaacctttg gacttgacca tgaagatgat aaccatttt agatatttat
139441 ataatatttg taatagattt catgtaatgt ttatattata tatattttat aaatgtaacg
139501 tttctcactt tcttcttaac aagatctggg gcaaacaatt tcaggttaaa gaaatgtgtat
139561 ttttaaaagt tgtaggggac attttatggg tagaggcctt gcacccgtgt ctccctttctt
139621 aattagctgg ctagattgca gactcactct ttgagcgaga ggacttggtt tgtgtgtttg
139681 ggggcaccgt gtgtgtgtgt gtgtgtgtgt gtgtggatgc atgcatgccc atttgtattt
139741 gtacataagt taaaaaataa gaatcgtgcc gggcatggtg gctcacgcct gtaatcccag
139801 cactttggga ggccaaggtg ggtggatcac aaggtcagga gatgagacca atcctggctg
139861 acatggtgaa accctgtctc tactaaaaat acaaaatatc agctgggcgt ggtggtgggt
139921 gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgagc ccgggaggca
139981 gaggttgcag tgagccgagg tcgcgccact gcactccagc ctgggtgaca gagcaagact
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<p style="text-align:center">FIGURE 1 (continued)</p>

```
140041 ccatctcaaa aaaaaaaaaa aaaaaaaaaa aaagaatcct aacacacaag gagttttatt
140101 atttacccaa agatgttggt agtttcaggg aaatttctag gaaggggact tccatccaga
140161 tggcattttc cagtagcaga aagagaaagg aacgatgtga ctgttagtgc aagcactgta
140221 ctgggaactc cacgtatgct atgaattcaa tctgtactta aaaataagtt ttactgagta
140281 ccttctaaaa gtaagttact gtgcaaaagc tgggaaaaca aagatgaaaa aagtacattc
140341 ctttacgcca aggaatttac aatctgaaag gtgaggcagg tgaacaactg gtgattttaa
140401 ttgggtgtaa taagtgttat gcaagacgtt tgtaccgagt tatggtgcag gaggacttag
140461 gagaggcacc cttattttgt cttagccaga caaggcttca taaatatgta cgttggaggg
140521 gtttagggaa gacttcccca gggaggagac attcaccttg agtcttcaaa cgccagtcca
140581 gaagcatagg gacagcttca ctacaggcag agggaaaaac atgccaagct cccagaggca
140641 gagctggaca agttcaaggc tcctgctcaa acaccaatgc ctgggaggca gggccatttt
140701 gaagagttca gattcatttt gatggctgtg gttaatgggt cagggagttg aagtgggggg
140761 gaaatagaat tagttttgca ttgataaata taaatctgtt aacattttga atatagacat
140821 atgattattt ttgtttgctt tttttggaca tttgcttctt cagaatgata agaaaggagg
140881 aacagggact ttgctgtaaa cagacattca caggatcacc tgattattat gctggttgtt
140941 ggtctaattc tcttcccatg aagcatttt ttggaaaatc tagtgtgtta tgaaattaac
141001 tgacttaagt taactgtctt gcaatatgat gaatggatta aggagaaaat gacactagag
141061 gctggaaacc aagcatgagg ttgtttgagc aatccaatga gtggaaatgc tactaggaga
141121 tagaattgat aagattggga aggaagggtt gaagagacac aagcgtcaag gatgtcttga
141181 gaatttctgg cttgggcaac taggaggaca gtgataaaac aatagtgaac atttattgag
141241 caccaactac gcaccaggta ctgttctatg tcgcctcaca tatctgagct catttcatac
141301 ttaacaataa tgcgtgatgt aagtactact cttttcacat tttgcacatg aggaaatgga
141361 aacagaaagg ataagtagct tgcccaaggt tacacaatta gtaagaaata gatttgggag
141421 tcgtcagttc ataaaggtct tgcagacgaa aacaatggat agaattactc aggaggtatc
141481 tgttggatga ggaaagggcc aagggcgaat ctctgggaaa ttccagtgtt tcaggaatcg
141541 gcagaggaag agtcgtatat tacaatatgt caggagtcag cctgtgaaag aggactgagt
141601 tggaccagta caagaggttg gagaccctgg aagacaatgg cgtgatagac atcaagggcc
141661 tccagggcgg gactaccgcc tgcttattct ggataaggaa atggaacctg gggaatggta
141721 gacctgagat ttgctggaag ccctgagatt tgctggaagc cttgtgttct tcccatggct
141781 ccagaacccc tttgggatta aggcatcatt tgtaggacaa gcctgtggtt tttattttg
141841 gactcgataa tctggattga tgaagaatgc aggagtggga cttggttatg aattaaagat
141901 catattatct ccttcttaaa atgctggttg taaatttaat tcttctctca agaaatcgtt
141961 tactggaaca tttattgagt aagaaaatta cttgctttga attatagctc ttcttttctc
142021 tttagtaaga attagctaaa aagtatctag gaagagaagc agaaaacccc aattatcccc
142081 caaaaattca ttctcatagt gaaccttcag aaagtctatt ggaaacccct attatttaca
142141 ataactgtta agataagctt attgaatatt cttcccagat taaaattcac caaacctcat
142201 cagttctcag agatctctgc cttcctcaag ccactagata gccagtaatt tccttttctt
142261 ttattgaact gtatcagctt cagaagacgc gatataatcc tattggtttc tgtcctcaca
142321 ataacactgc tgggacccat cctgagggtc cttgagggtc tttaacctct aatgtctggc
142381 cactcttttct tcttagtctg agccatatat atcattctca tatatgccac acataccata
142441 catgtcgcat tcattcaaat cctacattta aaaatctctt gcaaaagcca gcttgggcca
142501 ggcatggtgg ctcatacctg taatcccagc actttcggag gccgaggcgg gcagatcact
142561 tgaggtcagg agttcgagac ctgaccagcc tggtcaacat ggtgaaaccc cgtctgaact
142621 aaaaatacaa aaattagctg ggcgtggtgg tgcgcacctg taattccagc tacttgggag
142681 gctgagtcat ggaggttgct tgaaccctgg aggcggagcc tgcagtgagc cgagatcatg
142741 ccactgcact ccagcctggg tgacagagcg agattccgta aaaaaaacaa aacaaacaaa
142801 caaaaaaagc ctatctcaaa tacttgagtc ctttatgagt tttagcactt ggcttatttt
142861 ttgaaagaat actaccttct ttcctgaatt tatattttca tctcccctcc tccaactttc
142921 tctggcagtg cttttttcag ctggactccc aatttagtca tcataaaatc actgtagtca
142981 taaaacctgc ttggatagcc ctgagcataa cttgtcaatt tttatttatt tctttgtttta
143041 cttgtttggc agtctcttcc actaccttaa agatctaagg agatagagaat tgtgtatttt
143101 tttatttact agtgtaaatc ctatttgatt gtaagtccag tgtctttttt cccacaatat
143161 acaggtagca gaggcagaga ggggaggtat gtccctgaca caaggaccct ggaaaagaga
143221 tgggaaaatt aggaaatta cccactccta aggctaacca gaaacccca cgctagatag
143281 ctggtgtgag ggctgggtct gtagggaaga tgagctggga gccagaagat gaagtgttga
143341 gatggatgat aaaggaaagt ctcagccaag acaggagctg gagctagctc tgaaacacat
143401 gggaagctgg caggatgcgg tcagaggtca gagagcgatc agggttggtt taggataaat
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FIGURE 1 (continued)

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143461 tttgctaagt cagggtgtct gaggacagat cttttttat taaccatttt gcatgctctt
143521 gtcccgcaag gacctgtgcc tccttgcaca ttcatttggc agaaagatgc cactaggaaa
143581 atttgaactg aataggaaaa aaactatctg gtgaaatgaa aatgatcaga accttaaatg
143641 aaactgtggc ttatcattcc tttcaacagt ccaaaaagga aaatccagca tgaaggcaaa
143701 cagatactag agattaccaa aagtagatta caaaatgtgc agtaaaaatt aagtgaaac
143761 cttcagagat tgttgaaagg gaaagtgttc aagaagaatg ggaagctaaa aattgaaacc
143821 aaaagtataa ctataagcaa tcaaatcaaa agcaattttg atgaagaaga aaaaagataa
143881 ctagagatct gtataactac agggagaagt tttattagag ttgcttttta aaaaaaaata
143941 cataaataat gtaaggaggg gaatataatc aagttcagat gtaaacatgg ctttaattta
144001 tctgtgaaaa actagctctg tgacaaaata agagaaagga aaagctagtt tctagagtga
144061 gtggaagata ttgcaaaaat tcttaagctg tgggaaatgg gtaaacaata aaaggatctt
144121 tcaaagctat attctcaatg aagacgagca gcaggagcct gcttttttcc agtattgatg
144181 taacttttta ataatataaa aacataaggc ctggaaagaa aatttcttcc tgtatattct
144241 ataataactc agacttatta gtagcatatt cttttgttaa taactttata ccccacaata
144301 agcttttata tgcactattt tatttaataa tatttaacta ctttctccta acacattttc
144361 ataaattaga aaatcaacag tcttccctct ctaccttctt aagacacttt agtgtgctgc
144421 tttatctcta cacaatcttc agtgctttgc cttatatcta caactcaaaa gaaaatttct
144481 gtaataaatg tagtccctgg ctgggtgcag tgattcatgc ctgtaatccc agcattttg
144541 gagcctgaga cggacggatc gcctgaggtc aggagttgga gaccagcctg gccaacatga
144601 caaaaccctg tctccactga aagtacaaat tagccagaca tggtgtcctg cgcctgtaat
144661 cccagctact cgggaggcta atgcaggaga atcacttgaa tctgggaggc agaggttgca
144721 gtgagccaag aacatgccac tgcactccag cctgggcaac agagcaagac tccatctcaa
144781 aaaacaaaca aacaaacaaa caaaaccaaa tgtagtccct aatgaagaaa caatgatagg
144841 aaattaaagt aaaaatgcct tttttctcag atcaattttt tcttttttaag atacttgcaa
144901 attacatttt ctccactgcc tacttcatag ctcaagtctg gcaatttcag ctggaattag
144961 gaagagctcg tgtgctcagc ctcaaaacca tgtctacatt ccgactgcct gattcttcct
145021 cttacagacc tctctgtaca acgtctgttg tgtttcagct ttttgactct tcaaattagc
145081 atctcttcca taaattggat tttgatattg tttcacccca gtcaacattc agtaatagaa
145141 cttatgtgaa acagttcttc ctctgtcctt tgcacatttt ctttcatgtt ctgcatttga
145201 tgatactttg ctcttttcctt ttcttctgaa tccttgattt gaaaaaaact ttgtgtagct
145261 ctctgtatat cttactaact aaactttttcc aattgatatg actgtctcca tcatttcacc
145321 tacagcctca atgaaacact ttcctctagg catcttgaag taagtggcac atgatatttt
145381 ctcattctat aatgggggaaa ggcagagaga ggctaagtgc cttgactatc tgagtgagga
145441 gttgatctcc aaggagctgt ttaatgagta gacattagtt tctgttgagt tggatgatct
145501 atatttggac catgtcatta ttaatagttt cactttcctg aaaattaggt gttctcataa
145561 tttggagttc tggctaaatt aaagattgtc attttcctta gttatgttct attttctga
145621 tatgttatat ttgctcccac ctctacatta gtggatggtg gcttttccaa aggttgttgc
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145861 tagaattagg atgtcctaga tgttttcctgg tcatcttttg agagcagaaa ataatcaata
145921 tgtagatcta cacatatagg aaaaaatgct aaccagtcaa agtggagagg tgggcatttg
145981 cttgagttttc tatgcatgtt agaaacagtt gctctttgct ccattttgtt ggatccaagt
146041 cataacaaag tggtagaatg ttccttgaaa ggggaggagt atgggagaga attgggaaaa
146101 atgaagccac tggtacagag acctggtcat tagtccaaaa agatagtttc ttccagataa
146161 tgtacaaaaa tagaatggat gtggtgggag aaagaacagc cagaaagaaa caaggctgtg
146221 caaatgcttt atctagaaaa tgttagccct ccctggctaa tcttgaaact gtttgggaaaa
146281 aatcgtttaa acaagctact ttccagttca tgagatcctt tccactttgt agcaagatta
146341 tgtgtcttac atacacatta gcagctttga gattgtctaa atcatgcttc attgctttc
146401 tcacactcca ggaagaaggg aggttgagaa tggggccagg gctccaggcc tgatcctttc
146461 tcctcttcct cctcctcctt cttcctctcc tcctcttcct tcttcttctt taaaagtaag
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146581 caaatgaagt atattccttc atttgatccc atttttcttt ttcccacatt tctctaaaat
146641 aaaccaacat aataaagtca taatttggag ttctggctaa attaaagatt gacacacaat
146701 gtcattactc ttcattcttt gcttttgcaa gtcacgtgtg agaaagaaac atatttctat
146761 ggccttttga ctgcccttga taaatctgt acttaggggaa atagcaatat caataaatgc
146821 taaataatat taacacaatg tatgcagggg tttttaagct tcacagaaaa aaaaatttaa
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FIGURE 1 (continued)

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146881  gacatgaatt tccaggaaaa ttattcttgt aactatccca aatggttttt ctttccatca
146941  aaagaacaaa tggaaaaaag tgcaaaagcc aaatcaaaca aaatccttag tgtgaaatat
147001  attttggagc atgtggaatt aaatttgcat tttcaaataa aaacaaatgc ccgtttaaaa
147061  agtcatctaa cttttgtcct acgaagacaa ccagtaaaat atactgtttc ccttttccca
147121  gcatactcat gtttgggaaa acatgattat ctgaagagaa atttactttt actaaattag
147181  agtttgaggg gggagtgtgg aaggaataat tacagattat cctttattc aatctcttct
147241  cttggaaaga agagaagaaa tgttgaaagc cagagaactt ttctaaaacg ctgtagggaa
147301  ttttttttt ctgtaaatat ccaagtccaa aaggagattt gcaaaatgtg gagttggaga
147361  tttgaactca tacaatattt cctaatacaa ataaaaatct gaacctttta atggcgacac
147421  agtccacacc atgaatggtc aaaatcactg gagctaatgt acaggaaggg gttcctcagg
147481  gaactgtggc aaattttagc atcttccttt cctttaggg actgacacct catccttagg
147541  acttgagaat catatgtgaa aattatatag acttcccaca gtctactgac acattacaga
147601  gatactggaa atattaacca cacatgttgt ctacatactc tctttctcat catcataagc
147661  cacctgtgtt ctcactgaca ctgcaaatcc agtaaccaaa acatcctgtt aaaattctct
147721  ggcccttctt atccatgtgc tgtcctttgc cacagctcct aaatcctctt acctttgaaa
147781  atcttctctg ctaccctta gaacctccat tcagcctctt tctcaagttg ctttgtacat
147841  agtgtcttca tagcagcctt gtaggaacct cagcttcctc accccaatca ttgttttctt
147901  ttctccattt gtattgcttt tcctccggg gtatctgtta atcctccatc agtctattga
147961  cttatgaata taaaatccat gctaccttta cattggaaca cataaggtac ctagaattcc
148021  ttttgacacc tagtggtggc tcgataaaca cggatgcaca tcacgttaga gaaaaggagt
148081  tttctgagtc cagatttctt acatgaaaac aaatttcaaa tgaataaatt tctcactgtt
148141  attttaggat agctctctgc caaagacctt ttattataca aaagttgaga atgattgaag
148201  ttattttgct taattttttg ccactaaatt tgatgtgcca aaggaaacttc taaaaaacaa
148261  aaaagaaatg cataatattc ccagctactc aagaggctga ggtgggagga ttgcttaagc
148321  ccaggaggtc caggttgcag tgagccgtga ttgcactcca gcctgggtga cagagtgaga
148381  atttgtctaa aaaggaagga aggaaggaag gaaagaagga aggaaggaag gaaggaagga
148441  aggaaggaaa agcaagcaag caagcaagca ggaaagaaag aaagaaagag aaagaaagga
148501  aagaaagaga gaaagaaagg aaagaaagaa aaagaaaggg aggaagaaaa agagagaaag
148561  aaagaaagaa agagagaaag aaaggaaagg aagaaagaaa gaaggaaagg aaggaaggaa
148621  ggaaggaaag aaggaagaaa gaaagaaaga aagaaagaaa aagaaagaaa aagaaagaaa
148681  gaaaccatga aggtagctgc cgtatttcta tgaaaccttc cctccagaat tagttccttt
148741  tagcatctca ttcagacaca tggaaagctt gtttaaaatg acttcacaaa ttagacttaa
148801  tgaagtgact tgactcaact ccccctcaccc tcaagtggtc tttccctgca tcagagtccc
148861  tttagtttcg gatgtcactc atgacataga atgaacattt aaaagatgag gaggcagcca
148921  ctggctatca catttttctg agatgtgtga aatatgattc taatattaat aataataatt
148981  aacaaacaat aatactctaa tataattatt aatcatgaat tattaataca taatcatatc
149041  attattttct cttagtctaa tttataggtt cagatgtgtg catgcatgtg tgtcagtggc
149101  actcagagag gagatttaaa tagagagtgg gaagggagat aaaagataac tgctgcagca
149161  ctggagcaag aagccaaggg gaggtatccg ttaaaaactt tttgggatgt gaacctttg
149221  ttttctaga ttctggatgc cggaacatct gttttttgag atgcatctgt aggagcattt
149281  ttgtgtggaa tatttgaaag ttatcttgaa agtaaaggtc agagacagga attgaaacag
149341  ggcttaattc ttaaacaaga aggtataaga tattgcagtt gatggaactg tggtgagcat
149401  gttccccaag ggtggtgagc atgtctgtgt gggcatagaa gatacatgta cgaacatttt
149461  tatttttattt tatttagatg gagtttcact cttgttgccc aggctggagt gcagtggcgc
149521  aatctgggct caccacaacc tctgcctccc gggttcaatg attctcctgc ctcagcctct
149581  tgagtagctg ggattacagg catgcgccac catgcctggc taatttttgaa ttttagtag
149641  acatgggatt tctccatgtt ggtcagggtg gtctgaact cctgacctca ggtgatccac
149701  ttgcctcggc ctcgggatta caagtgtgag ccaccatgcc cagccaaaca tttttatttt
149761  taatagctta atgaatgtat aatgattaaa tgtttagcat gtattaaact atgatttcat
149821  gtagttttttt taaccatacc aaccatgatt tcatatggat tattaagca taccaaccat
149881  aatttcatgt acattattgc ttaagatagt aatgatataa aattttctta aaattattca
149941  tgtaaaagaa acaagtcagt taaaaggaaa atattaagta aaactatgca ggtggcaccc
150001  aaatatggta aaaattgtga agcagtttaa tgaataactg aactttggga aatgctagat
150061  tagagaattg gaaatactct tttaaataaa cacttgctat ctatgattat cctatggatg
150121  agtgtccaag aaatagagat gcatatgttg tatgttttta aaatgtacag gatgaattta
150181  cattgaccat catatttcct gtgctaaatc aaccattatt ttttggacta tagggagaag
150241  ctgtgtttct tcatagctcc tggagatgtg tgatgtgtca caggcctaat aactatatta
```

FIGURE 1 (continued)

```
150301  cacatttttt  cacaaaagtg  ctacatagag  tagaaatgta  taatagttac  caacccaaga
150361  ctaaatcagg  cctagtggtg  tggatagctt  cactttgcct  atgataaaat  acttcctcat
150421  tctttgtgtg  attttcaagc  aacttaacga  ctgttagctt  tgctgagcta  aatgcaacat
150481  ctcataccaa  atttattggc  ttggcaaagt  tacaaatttt  attacgcaaa  agttgagaaa
150541  ggaaagctgg  agaatgctaa  aaacagtaca  atttgctact  gtgtagtatc  tgtattgggg
150601  gctcagcatg  ttttatttat  agatatctat  taatacagag  atacagaaag  aaatacataa
150661  aaaatagttt  tatcaaatac  tttccagcat  tcaagtgtag  cctcaaaagc  aagaataggc
150721  caggagtggt  ggctcacgcc  tgtaatcaca  gcactgtggg  aggccaaggt  aagaggattg
150781  cttgaggcca  ggatttcaag  accagcctag  gcaacatagt  gagatcccta  tctctacgaa
150841  aaaattttaa  aacttagctg  ggcatggtgg  cttgagcctg  ttgtcccagc  tactcaggag
150901  gctgaagtag  gagtgtcact  tgagcccagg  aggttgaggc  tgcagtgagc  tataactgca
150961  ccactgcact  ccagccttgg  agacagagtg  agaccctgtc  cccaaaaaaa  ttaaaattga
151021  gaaaaaaaaa  aaaggcaaga  acagccacag  caaactttct  attggggaaa  aaaaaaaatc
151081  ctcctctttca  catctctccc  ttccttccct  tcccttttctg  agagtgactg  tggccaaaag
151141  gagcattttc  cccctgcagt  cctctgaggg  gtggggtggg  gctatgaagc  tatccttcat
151201  attcactcct  ttgtccagct  cttttcacct  ctagttcttc  tccccgcatc  tctgtctagc
151261  agtgccttaa  gtggaggagg  ggtgggggca  tcaagcttgt  aaaactggtt  tgttgggtt
151321  ctccttctcc  cctcatttct  tgattcttgg  gaaaatgtct  tgctggga gg  ctgcctggca
151381  gtgccctagc  tgccttctgt  gggcttgaat  ggggcttccc  tctcccccta  caggaggaaa
151441  agggagctgc  tgccagaggg  agaaatggag  agatggacag  agaaggcagg  tgccacccct
151501  cgcccctgac  acacaaagaa  aaagacacgg  aaattctctc  tctctcttct  cttctcctat
151561  ctctctctct  ctccctctct  ctctctctct  ctctctctca  cacacacaca  cacacacaca
151621  cacacacaca  cacacacaca  ggcgcgcgcg  cgcgcgcgca  ggcacacgtc  ttgcaaattc
151681  aggattcaaa  gagacagggg  caccattata  tttggcacgg  tggggccctt  ccaggtctga
151741  aatcctgcat  tcttccttac  tatttacttt  ccccgagctc  gagaagggcc  aggtgtgggc
151801  ggatggctgg  ccacgttttg  tgtttccaat  tcatattcac  gggatgacac  agacggggcg
151861  tggtgagtgc  tgttggaggc  gcttgggcag  tttcattttg  ccccacttct  ccacctgaag
151921  gctggggctt  gctggaacct  gcaggggcag  cctcagcaag  gtggggtggc  gtggagtggg
151981  gtgggagaag  ggactccagc  tgaagtagaa  cccaggctgg  acctgagaat  attggggagg
152041  gcatgggcgg  tggtttcccgg  gtaggggcct  tgagaacatg  ttggtcctga  ctgttgtcag
152101  tgtttggtca  aagttgccaa  aaggttaaaa  aaaaaaaagt  aggggagtc  cctgccaaga
152161  catatttccc  aggccacctt  tcttccgcgg  gagtgttggg  ggggaggtgc  tgcttgggaac
152221  ctgtgaatgt  gacatcagct  ctcctctcct  ctcccaaggt  cggctttgga  gagggaggtc
152281  agggcaccct  tgcctggcac  aggcggcagc  gctggcttcc  ggctcagtgc  cgcctgtcct
152341  ccgggagctg  tggcctccct  gggccccggg  gctaggctga  ggtaagcgca  cagcggaggc
152401  caggggcccc  ggcagaggcc  ctggggatag  ggtggaggca  tctctgggtg  tgggtgtggg
152461  tgtgggtgtg  ggaggagag  ttcttgcctc  tctctctccc  atctccaact  cttgcttcag
152521  tggctctttt  agaggatgca  tgtcattatg  gacctgtcgc  tgccactgtc  ctcgttcccc
152581  cagctgtgac  ttcgagggag  gtctggggat  ctgagtctgt  ccaaacccac  ggctttgctg
152641  ttgggataaa  aactgtcctt  ttgattttag  aaggaggagg  gaaaaaaggt  ttcccagcat
152701  gtgtgttgtg  ccagtcttgg  aaattcatcc  gtgcttgaat  tccaccctcc  atccccagaa
152761  aaactggagt  aaaacaaaaa  gaggagatgg  acaaagtgtg  tatttgatgg  catccccctgg
152821  gaagagactc  taaatttatc  ccataggtct  tactgggcca  ctgtgagcgc  tttggtggag
152881  aacaaacaaa  aattctgggt  gctcagttgt  ctaacctgaa  aaatgggact  agcggaaaaa
152941  gccaatgtgt  tccatgcacc  ttttgctttc  tttattaagg  catgatgtca  cctgtacagt
153001  aactgccctg  tgtgtacttc  aggggggat  ttcaaggtta  gatagacagg  aaattgtttt
153061  gaaaatgtaa  acacattatt  aaatgtgaag  tattatctga  ttccttgttc  gaatggcatt
153121  tccttctcag  caccaccttc  cttgcatatt  cacttaacct  tgtacaagaa  cacctttttg
153181  ccctaaatga  agacacccccc  ccaaaaaaaa  gagtcccaga  aaatatgtcc  ctgcttgtgc
153241  ggggaataaa  tagaatattc  tgaggtgcat  tcctccttcc  tatgttaggc  aacattcctt
153301  gaccctcctc  ggccccccaag  ccaggttgcg  ttttttttctg  ccatttagaa  gggtttttcct
153361  ttttgtccta  gtaaaacatc  agcccctgta  gctcttcatc  tccccctgct  gttcttctcc
153421  cgccatgtct  taagattggt  ggcaccgacc  aatcttaaga  tttaagttct  gtgtgaaaaa
153481  caccttttgct  tttcaatcag  tttatcagcc  tcctccgcag  gacaagtgtg  gacacacaaa
153541  agaacttatc  ggggcttctc  atcagtgata  gggaaaaagac  tgggcatgtg  cctaaacgag
153601  ctctgatgtt  atttttaagc  tccctttctt  gccaatccct  cacggatctt  tctccgatag
153661  atgcaaagaa  cttcagcaaa  aaagacccgc  aggaaggggc  ttgaagagaa  aagtacgttg
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FIGURE 1 (continued)

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153721 atctgccaaa atagtctgac ccccagtagt gggcagtga cgaggagag cattcccttg
153781 tttgactgag actagaatcg gagagacata aaaggaaaat gaagcgagca acaattaaaa
153841 aaaattcccc gcaacaaaca atacaatcta tttaaactgt ggctcatact tttcatacca
153901 atggtatgac tttttttctg gagtccccctc ttctgattct tgaactccgg ggctggcagc
153961 ttgcaaaggg gaagcggact ccagcactgc acgggcaggt ttagcaaagg tctctaatgg
154021 gtattttctt tttcttagcc ctgcccccga attgtcagac ggcgggcgtc tgcctctgaa
154081 gttagcagtg atttcctttc gggcctggcc ttatctccgg ctgcacgttg cctgttggtg
154141 actaataaca caataacatt gtctggggct ggaataaagt cggagctgtt taccccact
154201 ctaataggggg ttcaatataa aaagccggca gagagctgtc caagtcagac gcgcctctgc
154261 atctgcgcca ggcgaacggg tcctgcgcct cctgcagtcc cagctctcca ccgccgcgtg
154321 cgcctgcaga cgctccgctc gctgccttct ctcctggcag gcgctgcctt ttctcccgt
154381 taaaagggca cttgggctga aggatcgctt tgagatctga ggaacccgca gcgcttgag
154441 ggacctgaag ctgtttttct tcgtttttct ttgggttcag tttgaacggg aggtttttga
154501 tcccttttt tcagaatgga ttatttgctc atgattttct ctctgctgtt tgtggcttgc
154561 caaggagctc cagaaacagg taggcacgct cgttgacttg taagtctcgg aattacaagt
154621 tagtgtgttc ttatccacct tcatgctttt cttgcttcta ttttttcccg ttcttttat
154681 gactgcagct tagagagcaa gtgtctgaga attattgctg aaagctactt taagtcttct
154741 agtgtaaaat gtaaaattcc tctattgaat acaattaggt gcaattgact ataacatgac
154801 attaaaataa cttatcgttt tattattatt attccattat gtgtttcctt ggcttttaaa
154861 aaatgagaag agtatggaca tatacaattt agtcaaatgt atgtttgtaa tatatgtgtt
154921 tatacaggta cacaggccat ataggaactt aaatcttatt taaacactat tttaatagtg
154981 tgttaacgtg taaaatattt aagcattcca gcttgaagcc aaggaattgt atccagtcgt
155041 tcaagcaatg tatgttcagt aaaatcacct gcagagcaaa agtctgttga ctaactaccg
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155221 gtgtgagctc tcttttcagc tttattcacc tgtgctggga gggagctag gataattctt
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155341 tcagtgcact tttttttgtct tttcgtgacc ctgactaaag agaaaggatg tcaagggaat
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155461 ggctaaattg ttaggaggaa gaggcaaggc agtagtggag aaggggaggg cagtggatcc
155521 cacacaagcc tgatgcccag ggattcggaa ttcaaaatcc ccacagcccta ccttcagtcc
155581 cctgacctgc ttctcagccc caccttaggt cactggtttc tatggagtta ccctcctgaa
155641 ttgaatattg aatagttaat ttctctctcc aatcattttc cccacctaat tttgaaagat
155701 atacatcatc tggggtaccc tgtgccctac acagcatgtg aagtggatgg gtacccccta
155761 aagagagggt catcctgaat ggggaagtgg ccccaaagct aggaataact gtgatttctt
155821 gtctttagtc atgtgccaat gttaagtaag cttcagtgga tagtgctgtc ctacaagtt
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156061 ggaggggaaaa aaataaagag cccttttttc tgtgtttctt gctgatggca ggctgtgtgc
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156481 actctgaagg tagtccttct aacaccatcc aagtgcctca gtggggacag tttccctcta
156541 ttcctgaaaa taacgacagc ttcgttctta gcaaccaagg ggaggtgctt ctgaggcccc
156601 gtagctcagg ctactcatga tgggacaagc aggaggccac tgcacgtttc aaatgaggaa
156661 ctttcagtga gggggcctca gggggacact ctcacagtgg catctgatgg ggtttcggga
156721 ataattgccg aggtcagatg tgggttagtg caacctgtgc ttctcatggg agggtggaga
156781 ctgagaggca gaagtgatga tatagagggt tagaatcact taatttttact tacagaaaaaa
156841 cctaggctca aagtgttgaa gccatttgtg caggagtgag tttgtagcag agctagaact
156901 ggagcccgga tttcctttgc tgctatattt tccctttaaga aatgcccatt tcagaactga
156961 aatagaaata ctgtccatag gcttctcttt cacctacaga gaagaaaagc agatttcctc
157021 cttctgccct ggacactagt tcatcatctg tcggaagcag tcataaacaa gcacacattt
157081 actatgcata caatgtaccg ttatgacaaa ggaggaccaa aatccaaaca atatcaaacc
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FIGURE 1 (continued)

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157141 acaccaaaaa ccacaaggag cctaataatt actaaggtga tacttccaaa gggaggactt
157201 tatttcttag atgagaatga aaatggacac attggaaatt attggagagc cctctggcta
157261 tgagtccttc cacaaccata tggtaccacc gactggcagg agaaatgtgt gaacatgtgc
157321 ctcctcctcc cccaaccact ggggtcggtg gggtgacggt ggcactttta gcagtatcct
157381 ccgtggtttg agttgaaaat aagttttaaa aatcctgtga gtcatggttt tgcattgaaa
157441 cctcttccca ctgtgtaccc acaaatagtt aactaaatag accattagaa aaggaagaaa
157501 atataaagca gatgccaagc agagatgtcc taattttga caaaaaagca atgttgcttg
157561 tgtcaagaag aaactgaact ttgtgaagag ttgaaatgga attccactga attagaaaaa
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157861 tccaagagag ccttggagaa tttacttccc acaaaggcaa cagaccgtga aaatagatgc
157921 caatgtgcta gccaaaaaga caagaagtgc tggaattttt gccaagcagg aaaagaactc
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158161 tggagaaaga ctggaataat cataagaaag gaaaagactg ttccaagctt gggaaaaagt
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158281 gacaaaccag gtaagaggga aggaagaaaa attaggtaag aggttcacaa gaacaactag
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158641 aaatcgaaaa tcatttggg gagcggacat ttagaaaaag aatcaaagtg tcatggataa
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158761 tagggttggt agaattaga acatgctgtt tttcaggttt atggtctttt ttttttttt
158821 tttttttaaat agggaaatgt gtttggtgca gagccaatgt cattccaaaa agctctctct
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159061 tctatggaaa cttctcttag aaatccagtg gcaagaagtt ctatgattaa agttgtctga
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159181 ctcagctatc ggtttcttca cacctgctta tgagagtatc catatttatg gtcgcaggcc
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159961 tcggggcctg tctgaagcca tagcctccac ggagagccct gctcccactc
160021 caccctggct gggatcagag caggagcatc ctctgctggt tcctgactgg caaaggacca
160081 gcgtcctcgt tcaaaacatt ccaagaaagg ttaaggagtt ccccaacca tcttcactgg
160141 cttccatcag tggtaactgc tttggtctct tctttcatct ggggatgaca atggacctct
160201 cagcagaaac acacagtcac attcgaattc gggtggcatc ctccggagag agagagagga
160261 aggagattcc acacagggt ggagtttctg acgaaggtcc taaggagtg tttgtgtctg
160321 actcaggcgc ctggcacatt tcagggagaa actccaaagt ccacacaaag attttctaag
160381 gaatgcacaa attgaaaaca cactcaaaag acaaacatgc aagtaaagaa aaaaaaagaa
160441 aagacttttg tttaaatttg taaaatgcaa aactgaatga aactgttact accataaatc
160501 aggatatgtt tcatgaatat gagtctacct cacctatatt gcactctggc agaagtattt
```

FIGURE 1 (continued)

```
160561  cccacatttA attattgcct ccccaaactc ttcccacccc tgctgcccct tcctccatcc
160621  cccatactaa atcctagcct cgtagaagtc tggtctaatg tgtcagcagt agatataata
160681  ttttcatggt aatctactag ctctgatcca taagaaaaaa aagatcatta aatcaggaga
160741  ttccctgtcc ttgattttg gagacacaat ggtatagggt tgtttatgaa atatattgaa
160801  aagtaagtgt ttgttacgct ttaaagcagt aaaattattt tcctttatat aaccggctaa
160861  tgaaagaggt tggattgaat tttgatgtac ttatttttt atagatattt atattcaaac
160921  aatttattcc ttatatttac catgttaaat atctgtttgg gcaggccata ttggtctatg
160981  tatttttaaa atatgtattt ctaaatgaaa ttgagaacat gctttgtttt gcctgtcaag
161041  gtaatgactt tagaaaataa atattttttt ccttactgta ctgatttgga atcattactg
161101  aaatttgtaa ggagtgggcc aacgtgatta agtaccataa ggcaaataa atggttaaag
161161  acggtttcat agaaaagtga caattagaag gatattacgg tctaagctaa ttatataaag
161221  aatttatct gtatcttaaa tgttgatttt atactgcatt gaggtaaaaa cacaaaacaa
161281  aaaagcagct ttaacacctc tgtcttctct tgggtagcag cctcctgctt ctccttcacc
161341  tgaaaaattc tccagggact tcatccatta acttggctca ggctattagg caggattcaa
161401  cagtttaagc tgatggtgtg gtgagagatg ctttatccat attaatggac tgaaggaagt
161461  aatggcaaga caaccccca aaacatacct aattatacaa agttatatac caaagttgct
161521  tttagaaaat ggcctgctca gagcaagtag aggtttccaa aggtcttttta ttttctcaca
161581  ttaaggatgt tgtttcttaa ggaacattga gtaccattgc ttcttcgtga tagcctagga
161641  ctggccgtgt gcccatggag gtagagacac caggtactga ttctaggtcc tctgccacaa
161701  agcaccactt cctctccact ttgccttggc tggccttgtc agctcactgg agagcacagt
161761  attgcaattg cagtattgca aatggtcact actaactgaa ttctctaaga gcttgattag
161821  ccctcgagaa tcttccttgc ccttctctaa tagtgtctga aggaattcct ggcatttaac
161881  aaatattagc atgtagtgat cactgtcgtc ctaacagtga cacatcagaa ggatttcaaa
161941  taacagtctt caggcatgcg taatcaatgt cctgtgcaga gtctccgtcc tcattgatcc
162001  tcatttttct ctttaaggca cagtccaatg tctttgggga attgttttata aagcttactt
162061  tatccataaa ctgtttctca gtgcgtgact ctgaagaaaa ttttgaagtt ttgcccatgt
162121  tgacaaggtg cttggtctga acttggccag tatttaatct tgagcaaacg attcaatttc
162181  cttctatcgt gagtttctc atctatgaaa caagggagtt gagggagtt tctttcatac
162241  ctctgagaaa gagtttgaga ttacataaag aagttgaagt ggcatgaaaa aaaataaaga
162301  tctgagctta gaagacatgg atctaataca tttaagagga agtcagaatc agagaagcca
162361  ctgaacaaaa cagtccaaag dacagcatag taagtcagat tgatgagttt tggttgggtt
162421  tttcatcagt caaacccttg agcccccctt tcccatgctt cctgcttcag tatccagtag
162481  gaaaaatgaa agggatgatg tagacactct agggcatgag gatttgcagt aaataagttg
162541  ggagactcac agaaaattaa tattttcaa acatgaagac gaaacattca attatattac
162601  agtccacatc agcttgaagg gtaaactgat gggatggtct gtcacatttc ttgctctgtt
162661  tccagtaaaa gcatggtttc tggaaaccca cttaggacag ctttctctct ttacactgat
162721  agcccaggca agctttgatc tcagaactcc agaaaccaga gaactctagg tggaatgtgg
162781  taacttttgc caggggcagag ggaacaccta ctaataggta cttcatttgc accaccagag
162841  attggcatct tttttgatgg atccactggc tttgatactg cctgtactcc cccaaaacac
162901  agcttgggta ttggactaat ctagagctcc ctcaggagaa ctcttgctga cattaagaaa
162961  gagcaacatt ttgtcttttcc aggtgaaaat ccaaggccca aaaagggagg tgactcacct
163021  aagatcacag aaggagctgt agcatctctg gagcctgaac acttaagtta agcacgacta
163081  tttcagccag agggcccctg gaggtctgca gaaacagatg cccaggcaaa ccttgctaga
163141  aggctctggg tactaaagcc aaaatcagtc tttctgaaag ctttgcctcc cagccttgta
163201  gacagtgcta gcagacccat cccctcaaga ggaaagagaa gaaatgcagg ggaagaaaaa
163261  aggactataa ggaggctatc tcatgtgcatc gttaagtaaa tgtctatagg ataaaataga
163321  atataaccaa gaatttttaa ttattatttt tagactttac tcaccaaaga atctatctga
163381  gtgaagggggg aaatctctcg gtcagttctc tttttttttt tttttttttt ttttttgag
163441  atggagtttt gctcttgttg cctaggcagg agtgcaatgg cgctatctca gctcaccaca
163501  acctctgcct cctgggttca agcgattctc ctgcctcagc ctcccagta gctgagatta
163561  caggcatgtg ccaccatgcc cggctaattt tgtatttttta gtagagacgg ggcttctccg
163621  tgttggtcag gctggtctcg aactcctgac ctcaggtgat cccgcccacct tggcctccca
163681  aagtcctgtg attacaggcg tgagccactg tgcctggccc ggtcagttct cttttactct
163741  acaatgcaag gcagtggtct gcttttttt ttccccctct ctttgcttta ggtcttgaaa
163801  atgcctgttt tcacatttaa gttctcaatg tgtaaaacac tgctttcaag cttatgttct
163861  taatagagtc ccttctgcat tggctttatc tcacctttat actcacagtt cctggggact
163921  ttgggtctgg agctcagaat ttatctactg caagtgaatg ttacacattt cacagtaacc
```

FIGURE 1 (continued)

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163981  tctcatcttt gtagataatt tggtttcctg tagctttca catcctttct ctcattcgac
164041  ccctaccctc acacaacaat cctttcggga agctggaacc atatcatgta tccatcagcc
164101  aaccaaggaa agagacatat cgagagggtg agtgactcat ccagagtcca acatcaggca
164161  aatagcaaga ccagaacccg ggaccctga ccctttcttc ttaaatcct ccagagccaa
164221  gggatacac tggacctgca acttggacta acgtagatta tttccagctt gtgagtgaac
164281  tgtgagtgga atgaacttgt tcttattctc ttaggaagat caaagctccg tatgtaccct
164341  gagccctagt tttgaacgtc tctgtcgtat gattatttgt ttactgcatc attcttgtta
164401  tgacaatga tggttggcag aaaacttgct ggcatttaca aaagcttgcct caaatctggt
164461  gccatgaagc catgacaact tcattgacaa ctactggcca cagagccaat acatcggagg
164521  aaatagagtg atgaatgtga tggcagcggc catcaaattt cctcaaatct tgggcagtaa
164581  tcagagagag agctagggct ggtgccacta ggtagtaaaa agagaagggc ttcggccttg
164641  gagacaatga atgatggaaa tgttgggtcc cagggatgac aggctgcccg tagctcagaa
164701  aggcagcaca tcgggagtcc ggcatgcagt tttgcccgtt tagagttttc tgggtttctg
164761  catcctattg ttatttttca cattccgagt cattccagtc cccttctgtg taagttgctg
164821  tggaagtatc cagggctaat aatcacaata ttaagcggcc attgacatgg catgggcact
164881  gaccaattag aaaaagctgg gacagagctg ttgggcaggc tcctgataga ctctggctgg
164941  gctaggtctt caacctcctg atgttggcct gtaggggacc ttgtgatctg ggacaggggt
165001  gggcagccag ggtggaattt ccaagcttct tgttgctagg gctatttact aaccaggatg
165061  aaatcatttc actgttttac agactagaat agtctcactg gtatgtgctc ctgtgtacgt
165121  cagatttaaa agtatcgaaa ccattctctg cttgataaat tattctcttt acagcttcac
165181  tgagtgagat gacattatct tcatgcctgc ggaggtttgg caccaaatct ttctgctcat
165241  gcacctttgg tgtcctgctg cacagtcatc tctgcaatg ccctctctc tgcatgttcc
165301  cctccctcgt gctctggtgc cctatgggag aagtaaaaag accttaaggg tctccttgtc
165361  tccttggaga ttttacttta aattttttt ttatttttatg tgttttctat ttcaatagct
165421  ttaagtggta caagtggttt ttagttacat ggatgaattg tgtagtggtg aagtctagga
165481  ttttagtgca tcccttactc aagtagcgtg cactgtaccc agtaggtagt ttttcagccc
165541  tcaaccccctc ctatcctccc caacttctgg gtctccaatg tccattatac cattctgtat
165601  gccttttgtgt acccatagct tagctcctac ttataagcgg gaacatgttg catttgattt
165661  tcaattgctg agttacttca ctaagaataa tgacctccag ttccaaccaa gttgctgcaa
165721  aagacatcat ttagctcttt tttatggctg aagagtattc catggtatat atatattaca
165781  ttttcttggc cttctcatca gttgatgagc acttaggttg attccatacc tttgcaattg
165841  tgaattgtgc tgtgataaac atactcacgc aggtgtgttt ttgatgcatt gacttctttt
165901  ccttttatgta aattccaagt agtgggattg gcggatagaa tggtagatct acttttttagt
165961  tctttgagaa ctctccatac tgttttccac agagggtgta tgaatttaca tccttcttgg
166021  agattttttag caggggcaatt ttgtggttgc caaagtcaag atctgcctta gaccaggtct
166081  tcctagggcc ctagctctgc aataggaagg agcaagaggg acgagctgcc tgtaagatta
166141  aatcttgccc tcttagatta atttgggact aggaaagggt ggccccataa tttactattt
166201  aaactgggac atatttgaca gcacttagtg acattcttaa caattctcac ggagctacac
166261  attggactgt tgtggacaaa cttggacata tggtcatctt agcaatcaaaat aagccttgaa
166321  tcagttcaga atttcagaac cgcctttgct tcttggatgt gcttggcact gtgtaagcac
166381  acgcaatgtc tgtatgcctt tacctgcaga ccaggctgca gcagagcacc tcccccttttt
166441  ctggtgcca cagcctcaag ttcagagctt agggcataat atatcattca ataaatgctt
166501  attcaatgga tgaataaata cagagtgag ttccactgtt cagtaagagc gggggtgaaag
166561  tgatactctt ctagccagaa tgcgactaga caacagaga tttataagac ccatttccag
166621  ggctctcttt gcagagctgc catgctgaa atcttctttt attgaggctc cacgctagtg
166681  graaattatt tgacacaatg gggtattctt tctacttctt tctactccaa cccatcctgc
166741  atttcaccat aatcataata acaataatct tctccaaatg ctttaattat aatttcaata
166801  aatacagagc tagaaggaaa ttaaaaataa ttttggctat taccctcatc tcaaaaacct
166861  tccactgcca ctctgcctat acaataaaaa tatgctatct actgagacag gcaccagact
166921  aggaagaaag gttgggaaat gttacaattt cagtattgag catattaagt tttaaatttt
166981  tcatcatagt gtgaaagttg tcagagtcaa atgaagtcac ctgtgttagg aaccctgaca
167041  aatggagcca ggaaaggcca taaagggaga attctcacac acaaatgcct gataaccaaa
167101  gctatcacag aatactttgc aaaaaccaca atcttgcaca aaggccatca caaccttaca
167161  caaaaaatac ttcagtgaag ttatctgccc agcaactgcc tacctgcct cggactggtg
167221  ccacccttgt tattgataac tgtagccaag aataatgatc tcaaaacaat tacgttatcc
167281  tcctgatttt tcctttaaca atctttgttt tgctttacct cctcgaatac gcacatagtt
167341  tactatggca tgtgtatttt cattgcaatg tccatccctg aataaaaata attttctttt
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FIGURE 1 (continued)

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167401  catttattaa  tgtatttgtt  ttttgaaact  gggtctccct  ctgtcaccca  ggctggagtg
167461  caatggcaca  atcacagctc  actgtagcct  tgacctccca  ggctcaagtg  accctcccac
167521  ctcagcctcc  taagtagctg  ggaccacagg  tgtacaccac  catgctcagc  taattaaaaa
167581  acatttttgt  agagataggg  tcttcctatg  ttgcccaggc  tggttttgaa  ctcctgggct
167641  caagcaatct  tctcgccttg  gcctcccaaa  gtgctgggat  tactggagct  gttgtgccca
167701  gctcaatttc  ttttagggag  tctctctgtc  tgttatctag  gttgacagtg  gttatcttca
167761  aatatatcca  acagttgaga  gaatagtata  actctaaagc  caatatacct  agcatatagt
167821  ttatatagtt  gttgagatat  gctgggtgtt  gctttatctc  tacctgcatc  ctgccctcct
167881  tccttgaatt  actttgaagc  caatcccagc  tatcattatc  atcttaccta  taaatatttc
167941  agtgtagttg  taataaactt  gatatgcttt  gctcgatcag  gtaaaatgtg  aaatagtcaa
168001  ctagatatgt  ggacctagag  cttacagtgg  atgaagaact  cacaataaca  aacgcctcac
168061  ggaactcaca  ataacgaaag  agacaatgca  tgttgatagc  ttgtgtttat  gtggtgctta
168121  ctaatatccc  agacagtctt  ttgagaactt  tgcatgcatc  agctcatttt  attcttacta
168181  aaacactatg  aggtatttat  cctatgttgc  agatgaggaa  acttgaagac  agaaattcag
168241  tagtaactta  tgcaaggtca  ggcagctagt  gaagaggtaa  gaaccaggta  acctcattca
168301  ctatgctttt  ttgattcaga  agaatccaaa  gtgataaagg  ttacattatg  ggataatcaa
168361  gtcctatgat  ggtatcaaag  tgacagtgat  caactctgcc  tggggacagg  gaagggaagt
168421  ggtggtttca  gggaaggttt  catgtaaaga  aacagtgaaa  aatcagcctt  gaattcctaa
168481  gaaggatacc  atttgagaaa  tttaaagctg  aatcaaaggc  gtgaagaagt  ctcaataaaa
168541  tgctttgtcg  atagatgact  tgataaaaag  aacataacct  aacatgctca  tgtgactgac
168601  tcataagaaa  agtaagcagg  tatctagatc  attaaaagat  gatttatctt  gcaataatcc
168661  aatgatattg  gaaatcttaa  agcaacacaa  caacactagg  acagaaatct  ctaattttca
168721  agtggcattg  attgaactga  aattttgagg  tatgactaaa  aatagcaaga  aagcaattct
168781  aacagatttt  cactaaattt  tcagaagtta  actacattta  acattataat  acaatgaaat
168841  aattccactg  aaaatcactg  tacttactga  atgtaagctt  attttatagt  tcaaatgccc
168901  tatcaacctc  ctactctttta  atgcatggtc  acaaatgacc  tctcaccatg  tcaagaatc
168961  cctcttgatg  tatggatagg  aataacccac  ctgtcaactt  aggtgtcttc  cttgtgtttg
169021  aacaatttgc  taagtgacca  ttaccaatcg  acctgctct  gacattggtc  accggtgtgg
169081  ttctttccat  ataacctcat  cgttttgccc  tgatcagcgg  ccacaggcag  gcagtaaccg
169141  ttggtttggt  gaaagacaaa  atgccctaga  caattaagga  gatgatctta  ttcaggctac
169201  tacaataagg  aaaatgttca  ttaatgaaga  ctgtctcaag  gaaaggaagg  aaacctgggg
169261  tttcatagag  acagtaaaca  agggagcaac  tgaatctttt  ggtgtgtcatg  aggatggaga
169321  tggtctttc  ttaaccatga  agaaagggtg  gaaaggaaga  ggctcgagca  gggtgtttcc
169381  ttgcagttag  ccatttctca  ggacacaaag  aatgaggaga  tatttgagg  gacacaggac
169441  tcagataaat  ttcttcattg  tcagtccctg  gtttttttca  agatgaatat  cattcatcaa
169501  ggaaacactc  aatgacaatc  ataaatctcc  tgagtggggt  gaagtaaggt  ctcagaaatc
169561  atttctcaaa  gagtcttagt  gttattcgga  caaagacagt  tgaagcatct  gtagaaagat
169621  aatgtcaagg  tcagttgtgt  tgggattctg  gggactaggc  accgtaaaag  aggattgctt
169681  aaaaagaaaa  agagaaatat  aagtataaaa  ggtttactaa  agagccagaa  attgaataat
169741  gagggtaacc  agttcagtgg  attccaagag  gtcagtggag  gaaaatcttt  cagttctgta
169801  acactgctct  ttgagtctct  tagagctact  gaataggaca  tcagtggtct  cagtggtgct
169861  gtccacaggg  catgtctgac  tctagcattc  cacaggcttc  ttagtggccc  aggcagtgcc
169921  tttccaggga  gaaactgggc  ccatgaatgg  tctgctacag  tggtgagtcc  tttgaagtat
169981  atatagcaaa  ttttagctta  taatgcttct  tcagatccta  gggaaaagga  cccagataca
170041  agacaacctt  gagtccttac  agggatccgg  gtagtcagat  tttagttctc  ggtgacactg
170101  agtcaggcag  cagtgagaaa  aattgaaaaa  actgttggaa  accagaaaga  ttgaagatct
170161  gaaaaggatt  gataatttgg  gaagtttaca  ggatccagtc  caacttacag  ataggtacaa
170221  aaactaacag  ctagggagaa  agtcaattac  aattccacca  gacaagacag  tttgcctatt
170281  aatcattact  cacattaaaa  aaaaacccaa  acagctcaaa  aacaatgaac  aaggttagaa
170341  tgagataacc  tgggagactg  tgctatctga  tgtatagttt  ttcattaaaa  tgcaaaattt
170401  atttgtgtag  tcactgactc  ttgatcaaga  ataatctcaa  agaaagatta  ttcttgccat
170461  tacaagccat  ctcattagat  ctagaatggt  tattcagatt  cataagagag  gaatggtaat
170521  ttaccatatt  ggccttttaa  gtttgctttt  tggaaatttt  cataaggagg  ctcagattgg
170581  actgttaaaa  aaaatctctc  tagacaggaa  gccaagcaaa  taacttgcta  ccagatttca
170641  cctgtcaagt  acctataaat  ctgggcaaat  ttatttttc  ttcaagtccc  ccaaatatcc
170701  taggattcct  aggcatgcca  ggaaaggacc  ttctttacct  cttttactcac  ctaaaaggaa
170761  gaggatctgt  aaatcaggta  tcaggcctgt  tttcccggga  aggctttgta  agcatcattt
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FIGURE 1 (continued)

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170821  ccgtaaagcc  aaccttagct  tcttaaaagc  atctggtcat  atctgattaa  atgagcatca
170881  ttctcaacta  tgacattcca  agcactgcct  tagttgtata  acctgtattt  tcaattttgt
170941  catgtaaca  agaaggacag  attcttattg  aacctatgca  aatgattatg  ttgccatgaa
171001  aataaaaata  ctcaataaga  gtttccaaat  tctggaggag  tcaggcagag  agaatcaaat
171061  accactatca  aatgtttcat  ttcgtaagtg  atatcttatt  ctctgagttt  ataaactgag
171121  tttcagttta  taaaagcaaa  atctaaattg  ctatgtatta  tgtattatag  accacttaag
171181  aggaaaaaga  aagggcttcc  ctatatatcc  agaaaacaga  atatcagaat  gatcatattc
171241  caaacaaaaa  gcacaaacag  tcctcgtcag  ctcattcagt  gctatgtagt  taatttgtat
171301  tccactcagt  cttgagtgaa  gagtctcatg  aacccctttg  tttcttggct  agagttctag
171361  gaatcctaac  tcagtccact  ggtatgttct  caatattgtt  taagtgacaac catcagaagc
171421  cagtacccaa  aagtatctgg  caaaagtgaa  ggacaatctg  gcatcatcct  tttctacagg
171481  gctttgagaa  gataccacgc  cgaggacaag  cactatggcc  tctagctgat  ttgcaaagac
171541  tgagatgcat  cagagtaaaa  caaagactat  ctgtagatga  caaaagacat  aaagtggcac
171601  tgtggttaac  ttcttactga  taattttcaa  aagtgaaaga  tctggtgaca  ggtcattaga
171661  acaataatgc  aactgacaag  gaaatctggc  tgttcgtgtg  gagtacaaaa  caagatcagg
171721  aagtcgatcc  aaaaggtttt  agacaagaag  ataatttccc  ctgtttcaa  agagtggcta
171781  ttacatttga  tttataaaat  tgggttgtat  tagtccattc  tcaggtagtg  ctataaagaa
171841  ctacctgaga  ctgggtaatt  tataaagaag  tttaattgac  tctccacagg  tttaacagaa
171901  agcatggcaa  ggaggactca  ggaaacttac  aatcatggtg  gaaagcgaat  gggaagcagg
171961  tactttcttc  acaatggtgg  caggagagag  agagagccaa  gggggaggtg  cttttaaaac
172021  atcagatctt  gtgagaactc  actcactatc  atgagaatag  caaggggggac  gtctgcctcc
172081  actgagccaa  actgtatcac  gggtaaacat  tattttaca  gagaaaaaaa  atcttgataa
172141  ataactgtaa  taatcctgac  ataatatact  atgaatatat  caagcatata  gttagaatat
172201  accacgaata  tatcaacaat  atattctgaa  tgagtctgga  gtacatccta  aatatctata
172261  tgttaataaa  actccatagg  gaggtgatat  gtatccccat  ttgaaaatca  ctggcctaga
172321  agattctagg  ttcaaatcaa  agaagcaaag  ttgtgaccaa  gttaatattt  ttaaaaataa
172381  ctgaaattat  gactgatagc  actgtactat  tgtataacat  taggcacagc  agaactagga
172441  ccgtgacaaa  taatacacta  tgaagagtga  tggtatggac  aattctttag  ggatttctac
172501  agcacacact  ttctgaaata  ttaagaacac  acattttagc  tagagaaagc  taagcaaatc
172561  tgatttgcta  actcatcagt  tgtaacatat  caaatacacc  taattatttc  cagcatctct
172621  cttttcatc  tttgtagata  aaagtaaaaa  tcttgttact  tttccaggcc  ccctgccctt
172681  gaaaaattac  agaaatagtt  ttaggtgcaa  aagaaatcat  taagattgtg  tttggggaag
172741  acaaacacca  aaagttgtta  ggcgatttga  acacttggtc  aggtaagact  atgggttact
172801  gagaaacaat  acttggctac  gtatttgact  aaaacaacag  taaaaaattt  aaaaagtaaa
172861  tataagaggt  aacatgattt  taaagaagct  tagctctttc  ctaagaaact  ctgtttctctt
172921  aaataatcaa  ggacattgtt  gtggttcgaa  tgtttgtgtc  cccccaaaaa  ttcatatgtt
172981  gaaagctaat  tgccaatgtg  atggtatttg  caaatggagc  ctttgggagg  tgattaggtc
173041  atgaaggcag  accctcatga  atgggattag  tgcccttaga  aaagaggccc  aagacagctt
173101  ccctgagcct  tctaccatgg  gaggacacag  cgaaaaggca  ccacctatga  gccaggaagc
173161  ggcctcacc  accagacatt  gaatctccta  gtgccttgat  cttggacttc  ccagcctcta
173221  gaactgtggg  aaataaattt  ctgttgttta  taagccacct  agtttatagt  attttgttat
173281  agtatcccaa  acagactaag  acatgataaa  gtcacgataa  accaggttat  tctagtaaga
173341  cacagacact  ttgttttcta  ggcagattgc  acagaagata  aagaataacc  atttacaatc
173401  ttttatcaaa  agcaaaccaa  taatccaaga  aaaaaattca  tctaacagaa  agaaaacaaa
173461  attctagttt  tctaaagctc  tttttttttt  ttttttttta  aagacagagc  ctcactctgt
173521  tgcccaggct  ggagtgcagt  gctgtgatct  cagctcactg  caacctccac  cttccagttt
173581  caagtgattc  tcatgcctca  gcctcccgag  tagctgggac  tataggcgca  caccactgcg
173641  cctggctaat  ttttgtagtt  ttagtagaga  cagggtttca  ccatgttggc  caggctggtc
173701  gtcaaacgcc  tgatgtcagg  tgatccacct  gccttagcct  ctcagagtgc  tgggattaca
173761  ggcatgagcc  cctgtgccca  gcctctaaag  ctgtttttga  aaattttata  tgtataccca
173821  ttaaacttta  cctaactttg  gccatgacaa  agaaaattcc  ttttctgaga  agctcctata
173881  cttttctgtg  ttcatgtgta  tccctactag  tgtaacttct  caaaatgcca  gaaattcatt
173941  aatagatata  tacagatttt  taccacataa  aataagaggc  aaattatata  aacttaaaat
174001  gatgtttagc  aattaacgtt  cagtattctg  cttttctcag  aaatgatcta  ggcagctact
174061  ggatatccat  tcattaactc  aatttattat  tggcccaagg  ttttaagttt  cctaaagact
174121  ttgcaaatta  tcttcaagct  gacacattgt  ataacataat  tactgctgaa  ataaaatttg
174181  tcaaaataag  tcttcaaatt  acttaaacac  aaattcgcat  ttttttcatca  ttttaaacat
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FIGURE 1 (continued)

```
174241  ttagtagaag  tgatgctagc  ttcctcaatt  agtaaatctg  tataagttta  aaaaatattt
174301  acaaatataa  caaaatctgt  gcttatgcaa  tatttaacac  tgataaatca  gagaaaactt
174361  agctgtattt  attaaatcaa  aattattaag  ctagactcat  ttgccaaaaa  agtacctaaa
174421  ttacataaaa  ttagatttct  aaattatttc  tgagttaata  tctataacaa  tacctttttt
174481  aatccccaca  ctgaaagtat  tagaggttca  attttcttaa  tttctttctc  ttcataaagg
174541  gatattctta  ataaaggaat  atttagtcaa  tataaatgct  tatttatctc  taagcaaatc
174601  agactagaga  ttctttaaga  catttcctaa  tctagcttat  tgatattatc  aggagataga
174661  aaaatattat  acactcacac  gatgagaagt  aaaggacttt  ctaaatacag  acatactcac
174721  agagaaagct  tataatttca  tttctaaaat  ttcagtcaga  tgtcaaatat  aaaccaacaa
174781  atacaaaacc  cgccagtcca  gatattaact  tcctggttgg  cataatattc  ttaatagatt
174841  tgaactaaaa  atagacagac  agagaggaga  ttctagctaa  attctgtcac  ctttcactca
174901  acagagacaa  ttacctctat  aaaccatcag  ttgcttaaag  agatcatcaa  atgttcagac
174961  catgaaaata  aaagttgtcg  ctagaaattg  agtaagtgct  caggaaaagt  aacaatcaaa
175021  tctactgtgc  tactgatgaa  caaaagtcac  atgagttgga  ctcacctttg  ggtccccgaa
175081  tctgtagtcc  ggaacacaga  gggctccagc  tgcctagata  cccctgtgga  ataacagagc
175141  tctgaagtga  ggcccaagct  attcaagtta  ttgcacccaa  cagaggggagt  ccttgtaagg
175201  agaatggggt  aagaaaggga  gcctggtcag  cacaaatgta  tcaggaaagt  ggctcaagtg
175261  cagtaaaatg  actaagagta  tggtcattgt  attcagatat  acctggattc  aaatcatggc
175321  tccactgctt  ataagcccct  tgggaagcta  ttttaccttc  ccaagtctcc  atctattcat
175381  ctataaatatg  gagataataa  tacctaccac  acagtgtgat  tgtagattac  cattccatat
175441  gaaactctgg  agaccggccc  tttattcatc  acacaaaccc  ttcaccatat  gaccctaact
175501  tacttttcct  gtttttgttt  gtttgtttgt  ttgtttgttt  gagacagggt  ctctctctgt
175561  tgcccaggct  ggactgcagt  ggcatgaaca  cagctcacta  caggctcgac  ctcttgggct
175621  caagcgatcc  tcccacctca  gcctcctgag  tagctgggac  tacaggtgca  caccaccatg
175681  cccagctaat  tttttatttt  tttgtagaga  tgcgtctcac  tttgttaccc  aggctggtct
175741  caaactcctg  gcctcaaata  atccttctgc  ctcgatctcc  caaagtgctg  ggattacagg
175801  tgtgagccac  catgcccagc  cctcctgttt  tatcttcacc  ctacattggt  actatcgtag
175861  gggaacattt  ctcaaatttt  gtgtgcaaca  gagttaacct  agaaaaattg  ataaaatgaa
175921  gattcccagg  tcacaaaccc  cagaaattaa  gacctagtaa  atgatagaac  ctagaaatct
175981  ttgttttagc  aagaacccag  gtggttcaga  cataggtgtt  tttagatta  tgtttaattt
176041  taaaaatata  ccacgtgagc  agccgggcgc  agtggcgcat  gcctgtaatc  ccagcatttt
176101  gggaggccga  ggtgggcaga  tcacgaggtc  aggagataga  gatcattctg  gccaacatgg
176161  tgaaaccccg  tctctactaa  aaatacaaaa  attagctggg  cgtggtggcg  cacacctgta
176221  gtctcagcta  ctcaggaggc  tgaggcagga  gaatcgcttg  aacccgggag  gtggaggttg
176281  cagagctgag  atcacgctac  tgttctccag  cctggtgcca  gaatgagact  ccatctcaaa
176341  tgtatatata  cacacgtata  tatacatata  agtgtatata  tatgtatata  tgtgtatata
176401  tacatatatt  acatatataa  cataacacat  atattacctc  ataacatac  atattacata
176461  tatattacat  agatgttaca  tatattatat  atacacgtat  acatatatct  atatatacac
176521  gtatatatag  atatatataa  aatgttagct  attcctcacc  ctggctgtga  actttcgttt
176581  ctctccaccc  aggctttga  aatgccactt  tctcatagaa  gaatggcttt  tcttcaaggt
176641  tctgctggtg  agctgtttt  taaatgtgtt  ctcttctgtg  aggctttcct  ggacttctca
176701  aggcaaaaag  gctttgtggt  ctctcctctg  gtatttgtta  acaagtctga  ttccccactt
176761  gacagagagc  tcttgtaggg  gaggcacggc  atctttttt  tatctctgtg  ttctcagcat
176821  ccagagaagg  cacgctttga  atgtctgtta  attgagatga  caatcccaac  cccatattgc
176881  aaggagaatg  attggaatct  ctccatact  tggctttaaa  gtcatctaca  agcctgaact
176941  gagagtctta  gagactttca  ggccagaagg  tactaagagg  tttgtcaagt  cacagactga
177001  agaaaatatt  tgcaatacat  atattgata  aaagactggg  catctctctg  gaatatcagt
177061  ttctaagaaa  tggtgctaac  acatccttat  aataaatcag  aaaaacggtg  cctggtaact
177121  caggtttcca  catgcaaactc  ctttcattac  tggaaataaa  aattgtttta  ctttgaccaa
177181  agtagatgat  gtcttccagt  ataaaaaaaa  aaaaaacact  cctccccagc  atcaacctac
177241  ctctgttgtt  tttgtacatg  aaatatgttat  tagcagcaat  gacagacggc  taacatctga
177301  gtccagccac  gtgacaatca  ttcgaagtca  gcaggaacag  acgtgctgaa  ataaaaaaag
177361  acgagatgaa  gtgctctacc  tagggaacac  cgccttgcaa  tatatacgtg  tcactgacct
177421  ctacttagga  atgtgagtgc  aaattgtcct  ctggctatgg  gacacaact  aagccacgaa
177481  atgaaagagc  tccaaataaa  ttaaaatgat  aaatttagcg  atttagtgtg  aacataaaaa
177541  gctttacaac  ttcacgaatt  aaaaaaacag  tttcaatgtt  agaagtcaag  agagcagctc
177601  cctttagggg  gtggggtggt  agtgggcaga  ggagagcctg  ggggacttct  gtcttctgtt
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FIGURE 1 (continued)

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177661 tcttggtctg ggtgctgaga acataggcgt gttcactttg gaggaatgct ccaagctgca
177721 catcaagata tatgctcttt cccgtatgtg ttatgtttca aaaaagctta cccttcctc
177781 ctctcaaaaa gcattttttc cctttcattt ttttatttct tcttcttctt ctctctctct
177841 ctttttttt aactagatac acgctgaaca aacaaaatat gcaaagaata atagtttgaa
177901 ggggtgccag catgctagcg tgcctctgga agcgtacatg ccttggtctg gactgggcat
177961 cagatgtgca ttttcacttg atgtaattca tttccttgtt ccatgaccca gctttcctct
178021 ttggggtaaa ggcccgtcca gcattttct tggacaaggt ctccaccttt gctgcatcca
178081 gggagactcc ttcagtgcca cggtcctgcc tcaggttagt tccttgtac gtgttgcctg
178141 gctttgtcag gtcttaatgc catcctgaag ctggtaaaat gagccaagtg acttcatctc
178201 tcatggcaca ccttgaggac attacttggg cacaagccaa ttcactgctc acagcccgag
178261 agacattttt ttcccatgag ctagctcctc tcctcctctc tcacaaataa cttcctctat
178321 gggaaaggac acatcagaga acaaggagca ttgtaacggg tgagaaatat gcttgacatg
178381 gggaaggaga tgccgtcctc actccctcct tccccaccct cccacactca tctgtcaact
178441 ctaattctc actaatgctt gggtttcact ctaagctccc tttgcttgct cgtgcccacc
178501 aacagaaata tccaggaaaa gaaagagcat caggaatgac tggcctgtgt gcaagcaatt
178561 ccttgttgtt gctgactgcc ttctgcagct tggcgaattt gactcttgga atgcacggac
178621 agaagtagca tttttctctc caccagaagt ctgacactga ccatgtcaat gagcgtcaat
178681 tggcagtacg tgtgtgttgg ttgacccttt acatcaagac caagctaagc atttgctttc
178741 ctttggtcaa ttccactggt ccttcctttt ggtcaatccc atcgctctct gacccagggc
178801 cagaggaaca tagcatttct cctaacttgg acaatgttgc aacaccaaaa aggcttgtac
178861 tgaagtacgg aggaggtaga tgtgaagagt catccttttg tcagattgca aaggtgttgc
178921 agcccattag tttcaggatg ttttttatttt gttcccttcc agtaaatgtt ttcagagatt
178981 ttgcctgggg ttttttaaaga tgttttataa gttatgggtc tctttaaaat ttttaatcat
179041 cttaatgagg tataatttat atacaataaa atgcctagac agtgatccca tttgatggat
179101 tttacaatta tatataccca tccaaaccaa gatagaaaac acctccttca cccagaaaac
179161 ccctcatttc cttttccagt cagttccctc acacacactc atctctgccc tacccccagc
179221 cccactagag cctaggagaa gtcactgttc tgatttcttt caccataagt tagctttgct
179281 tctataaaat gtagcacctc agtatatatt cttttaggtc ttgctaattt tgctcaacat
179341 aatgtttttg agatttgttc atgttattgc ctttgtcagc agtttgttct actttattgc
179401 tgagtaatat tccattgtac aaatatatga caatacattt atcaattctc ctgtatgagt
179461 acaatggaat tgtttctatt tggagctgtt actaagagtg ctgtgagcac tcttgtaaaa
179521 gtcttttta tgttcttttt ttccatttct cttgcataaa tatctgagag tagaattgcg
179581 gggccataag taggtttatg gttaacttta tatgaaagtt ccaaaatttt tccaaactgg
179641 ttataccatt cttatattct taccagcagt gcctgggata tcgaattgct tcatgcttgg
179701 tattgtcaat attttattt tacttagtcc aacatttggt attatcacag tttatttact
179761 tcagctatga tgatttgtgt gaaatgccat ttcactgtgg cattagttgg catttccctg
179821 atgatctacg gtgttgagct tactggccat tcgttcttcc tatgtgatag gcacgttcat
179881 gtattttgcc tgtttttaca aattgacttt tttgtgtttt tattgttggt ttttaagagt
179941 tctctataca tcctggatat gagtccttta ttagacatat gtattgcata ggtattttcc
180001 agtttgtagc ttgagaattt attttttaat gatggcttct gatgaaacaga aattattaat
180061 atttatgaag tctgacatca ttttttttaa attactcctt ttatgtcct gcttaagaca
180121 tctttgtctt cccaaatgtt gtgctatatt ctcaaggttc ctcttagaga ctttaggttt
180181 ttagtcttta tgttttttgtc tatgatccat atcaaattaa tttttgtgca cggtataagg
180241 cgggggtgg tcaagactca ttttttcccc caatatccag gtgttctagc actatttgtc
180301 taaaagtctt tcatttcccc attgaaatga cttggtgctt ttgttaagaa gccattagta
180361 tatgtgtgtg tgtggctatt tctgggttct ctattttgtt ccattgatct atttctggac
180421 tcctttcatt tccatagatc actatcacaa tatctatagc tgtagagtat gttttcagat
180481 tgattagtgt aagatctcta actttgttct tttttatcaa gatcgtttgg ctgttttgtg
180541 ccctctgggt ttctgtattt attttagaaa caacttggca cttccttttaa aaaatgatgc
180601 ttgaattttg atcgaattgg gttgaattta tcctcgattt aggaaggatg gatatcttaa
180661 caacattcag tcttacaaaa acagtatgcc tttttgccgg gcacagtggc tcacgccagt
180721 aatcccaaca ctttgggagg ttgaggtgga cagaacacaa caggccagga gttcgagacc
180781 agcctggtca acatggtgaa accccatctc tactaaaaat acaaaaatta gccagatgtg
180841 atggtgcatg cctgtaatcc cagctacttg ggaggctgag gcacaagaat cacttgaacc
180901 aggggggtgg aggttgcagt gagctgagat tgtgccactg gactccagcc tgggcgacag
180961 agcaagaccc tgtctcaaaa taaataaata agtaaacaga taaactaga ctaaataaaa
181021 gaaaccagtg tggctttta ttaagttagg ttttcagttt cttttaacaa tgttttgtag
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FIGURE 1 (continued)

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181081 ttttcaatgt agagatcttg catatttcat tatatttatt cctagccatt taattgtgtg
181141 gtcatatttt aaaattttta tttgccagtt tttattgtta gtgcagaata tatactgact
181201 tttaccctaa agctttgctg cactcttta ttacttttaa aaatatttgt gtagattcca
181261 tggagtttgc tatgtcacat gttctttgaa taacaatgat tttttccttt agaatgtttg
181321 tgcttttat tgcattgact tactctataa aattaccata tcttctagaa tattgctgaa
181381 tagaagtgtt gagtgaatgt tcttgccttg ctcctaatcc tagtggaaaa ggatttaatg
181441 ttactagttt aaagaataat ctgtaatttg attgagaaaa tttcctctat ttctagtttg
181501 ctgatagttt ttatcgtgaa tcagtgttga atttcatcaa gttcattttc tgcatctatt
181561 gagatgattt ttttctcctt tattctctta atgtggcaat ttacactgat ttatttcac
181621 acattgaacc aatcttacat ttctgaatat atcccacttg gtcatgactt atttttcat
181681 tatagctttt tgtgtgttgc cagatttgat ttgccaatat ttccttaagg catatatagg
181741 tgtgtgtgtg tgtatatata tacacacaca tatatatata tatacata tacatatata
181801 tacacatata tacatatata catatataca catatatata catacatacc tatatataca
181861 tatgtgtgta tatatataca tatgtgttg tgtatatata tatatatatt tataagttta
181921 aaagttattt cgaaaatata ggctgagtat ccettaccca aaatgtttgg gacccaaggt
181981 ggtttggaat ttggacttt tttggatttt gaatagttag ataaatataa taagatatct
182041 tggggatggg acccacgtct aaacacaaaa tgcatttata tttatatat accttacata
182101 catagcctga aggtaatttt acataatatt ttaaataatt ttgtgcatga aacaaatttt
182161 gattgtgttt tgactatgac ctgtcacatg aggtcaggtg tggaattttc tacttgtggt
182221 gtcctgttgg cactcaaaat gtttcaggtt ttggatcatt ctggatccag aatggatcca
182281 ggtataggtt ggattccacc tataccaacg tttttgccat cttagggtct ggtttattg
182341 acttttttt cttttttgct tgtttgtctt cttgcttttt tgtgttttgtt tttaaatttc
182401 agattgaacg ccagacatta ggtatttttt taaaaaacag tagagactga gacaccactt
182461 atttaccctc agaaaagggc atgcctcatc ttctgtccag ttattcgtat aggagtttgg
182521 cagatgaagt ctgtcgttga ggtgggcctg aactttgttg tggctttagt tatggtaata
182581 caacccaaat ttgaaatgaa actacactct gatgcctttt atttagtata agcactgggt
182641 gccagagagc atccctcagg tctcccacta tgactacaga cttcaggaga ccctatgccc
182701 ctgcacctca ggagagatct ctcccagcat tcctgcccct tggccagtgg ccaactgcta
182761 tttcctggca cttggtgtaa agcaggggcg tgggagggtt tctctgagtt ccctgatcc
182821 acgattagac taaggcagcc cttctgcacc tgcagctcct cagctcctct gcccctcccc
182881 cagatgtaga caagggcacc tcatgcttag cacacagttc tgaatgctgg acccatttcc
182941 ttggctttcc tgttccatcc tcagtcttag acaggcccag tgccactatg ctcagggagg
183001 tctctctcag acctcctgac ccttcctggt gtcaggctgc tctgcctaat aggcagtgta
183061 agttctggag catagcaaga ttacttttgg ttttcctgct ttgtcttcac tcttaggttg
183121 atcatgttag cctgcatttc cctggatttc taaccctttt ccatatgtgg actgtcactt
183181 tctgccactt agtgtaaggc ctggagggtg agaaagtttt ctctcttctt ctgccactcc
183241 tggtgctgcc catattctca ttcggtgtgg acctggcact tctttgtga agcagtagtt
183301 aaggagactt tagaactcac catggccaag gaaaggccca agggtttgtc agtgagacag
183361 atcagattcc aattgatggg caaccaatca atgaaacaga cacaccctca cagttggaaa
183421 tggaggatga agatacaatt gatgtgctcc agcagcacgc aggaggtgtc tactgaaagg
183481 ggcacctgtc tctttcctcc agaatgctgt tcttacagac cagtattaaa ttctcagtca
183541 gaaaactgca atttggtttc accacatctt gactaataga ctaatacagt acagttttct
183601 ctatcctttc ctttcccttt tcctcattcc tttataaaat cacataaagt aactaatgta
183661 tttgcacaag aatatcacat ttttaaactt tcttattata ttcagtggcc agtggtatgt
183721 tttaattgac atcgagtgga gacaggatgg gggaaaacac tgattctgtg aaaataccccc
183781 gttttctcccac taccggcatg ctcattcagc tcttatcttt atattccagt aagttatttt
183841 gctctcactg ttttaacaac aaccaccaca acagaaaaaa cataaaaatc tttgcatacc
183901 ttgttcaatt gaataatttt aatgatttcg tatctattat tgtaaaacca aggacaattt
183961 tataacttt tttgtacgta gctgttacat gtaaggcaat ctgttttaa gtagggttaa
184021 attactctta aaaaaaaaaa agaattctag acagttttct cttcaagtca agcatgttgt
184081 tgtttaagct tcttgtttaa aaataaatta aagttttctc gattcctctg ctctctttct
184141 agtgtaggca gctggcatac tgtgttacag tctgttcacc actggtttca aatctttttt
184201 ttttttttga gatgcagttt cactcttgtc acccaggctg gagtgcaatg gcgtgatctt
184261 ggctcactga aacctctgcc tcctgggttc aaatgattct cctgcctcag tctcccaagt
184321 agttggtatt acaggcaccc gccaccatgc cgggctaata tttgtatttt tagtagagac
184381 gtggtttcac catgttggcc aggctggtct tgaactcctg acctcaggtg atctgcccac
184441 agacaggatc aggactttc attcagctgg gcttgagatc taaatatcaa tgagatccca
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FIGURE 1 (continued)

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184501 gagatctctt tatggtttaa aactcggctt tctgaacctt ggtgtatctc tctctctgtg
184561 tttgaccatc tggcagctgg atttttatat tagatttttc tcttcagtca ctcctctagt
184621 tttctggctc ttgtgaggtc tttctccttc cttttgtcct gtccctagac attagcactt
184681 actgcttgcc cttggtgaaa gcctagtgtt ccttgaaaag actcctctct tggttcttct
184741 gcccttgttc cagccttcag caggccactg ctggtgagga cttggagtat ctcagggtac
184801 atttcctagt tctcctgccc tgctttcagt gaagttcctg agtgctttat tggggtttta
184861 tgagctcttc tgccctgtct ccagcctttg gctgcctctg ccttgcactt gttgaaggcg
184921 ccatgtatct catggcagat atctttcagg tcttctgctc tgctctcagc cttttgtgta
184981 ctatctctgt gtactcagta aaggcccata aaaaaacaag gagaggggt gcaaactcaa
185041 tttgtgacta gagcccttg agactccagt ccatcatttc aaccaaccaa cgggcatcaa
185101 aagttcatca aggacaggca tggtggctgg tgcttgtaat cccggccactt tgggaggctg
185161 aggtgggtgt atcagttgag ctcagggtt tgagactagc ttgggcaaca cggcaaaacc
185221 ctgcctctac aaaacaaaca aataaacatt ggtctaatat ggtggcacag gccagtagtc
185281 ctagctactc aggaggttga ggtgggagga tcacttgagc ccaggaggtt gagccctgat
185341 catgccactg tattctagcc tgggtgacag agtgagaccc tgtctcaaaa aaaaaaaaat
185401 gttcattaac agttcagctg aattctcact ccatccacag cagattcctc ctttctccac
185461 cttcattcga ggttcacagt agctacggtt ttctctctgc tgaaattcat ttcatttaga
185521 ttgtcttgca tcctcagttc tttggtaggt ttatttattt atttatttat ttatttttga
185581 ggcagggtct tgctctgtca tccaggctgg agtacagtgg cacaatcaca gctgcctgca
185641 gcctcagcct cctgggctca agcaatcatc ccaccttagc ccctggaata gcttcacagc
185701 tgggaccaca gacatgtgac accacgccca gctattttct tttttttttt gagagatggt
185761 ggtcttgcta tgttgctctg gctagtcttg aactcatggg ctcaagcaat cctcctacct
185821 tggtctccca aagtgctggg attatagaca tgagccacca tgccttggcc tctggtgagt
185881 ttcttttaaac tatcattata tagcttgtct agatgtatct tgctgtaaag gtggaagtaa
185941 tggtttcttg ctacttttta tatcctaata agaagcaagt gtctaaaagt ggtcttaaaa
186001 attattaggt agctagaatt acacactatt aattaagtac acacacacac acacacacac
186061 acacacacac tccatttcct aatttctctt tatttttttt tcctactcag tcatccacag
186121 cactttctat tgtccacctg tagttctcaa ttgctaatga tttttctttc caggggacag
186181 ttggcaacat ctggagacat tttttattgt tacagctggg gagatggtgc tattggagtc
186241 cagtggtgta gagatcaggg atgctactaa acatcgtatg gtaagtagga ccgctctcaa
186301 caacaaaaaa ttatctggtc caaaatatca atggttctga ggttaagaaa ctctgttcta
186361 agggaatatg aacaatcgcc tgtagcagat acagtcattg ttttttccacc aataaattct
186421 ggtggctacc aagcaaatca aaaagcaata gaagagaaag gaataatgtg tgtattgtct
186481 ttctgatttc aggaaggcag tgtgtggatc
```

FIGURE 1 (continued)

```
  1 mdyllmifsl lfvacqgape tavlgaelsa vgenggekpt psppwrlrrs krcscsslmd
 61 kecvyfchld iiwvntpehv vpyglgsprs kralenllpt katdrenrcq casqkdkkcw
121 nfcqagkelr aedimekdwn nhkkgkdcsk lgkkciyqql vrgrkirrss eehlrqtrse
181 tmrnsvkssf hdpklkgkps reryvthnra hw
```

FIGURE 2